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ABSTRACT

As the first of four scheduled revisions of a series of six earlier volumes compiled by the National Referral Center under the general title "A Directory of Information Resources in the United States," a total of 2,891 entries are presented in this volume to update and extend the physical sciences and engineering coverage of the 1965 directory. The publication is prepared on the basis of a register of information resources by using the automated system developed by the Information Systems Office of the Library of Congress. All entries are alphabetically arranged and sequentially numbered. Included in each entry are the name, address, telephone number, areas of interest, holdings, publications, and information services of the organization covered. A subject index prepared from a previously indexed companion file maintained for retrieval operations is also provided. The work on this revision was supported by the National Science Foundation. (CC)

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ED 080299

PHYSICAL SCIENCES
ENGINEERING

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EDUCATION & WELFARE
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A DIRECTORY OF
INFORMATION RESOURCES IN THE UNITED STATES

SE 015 635

The National Referral Center may be described as the "information desk" of the scientific and technical community. It does not provide technical details in answer to inquiries or furnish bibliographic assistance. It functions, rather, as an intermediary, directing those who have questions concerning scientific and technical subjects to organizations or individuals who have specialized knowledge in these fields and are willing to share this knowledge with others.

In answer to requests for guidance and assistance, the Center provides *names, addresses, telephone numbers,* and *brief descriptions* of appropriate information resources. "Information resources" has been defined broadly to include professional societies, university research bureaus and institutes, Federal and State agencies, industrial laboratories, museum specimen collections, testing stations, and individual experts as well as more traditional sources of information, such as technical libraries, information and documents centers, and abstracting and indexing services.

The National Referral Center should be notified directly about any information resources not included in the present directory. Referral services are available without charge. No special forms are required. Requests may be made by calling area code 202, 426-5670, by writing to the Library of Congress, Science and Technology Division, National Referral Center, Washington, D.C. 20540, or by visiting the Center on the fifth floor of the Library of Congress Annex, Second Street and Independence Avenue SE.

The Center welcomes registration by any organization having knowledge or expertise that it is willing to share with others. A registration form is available for this purpose but its use is not mandatory. Those who wish to register may call area code 202, 426-5680, or write to the Library of Congress, Science and Technology Division, National Referral Center, Washington, D.C. 20540.

Other National Referral Center directories published by the Library of Congress are for sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The number following the title should be used in placing an order.

Physical Sciences, Biological Sciences, Engineering, *January 1965*[1]	(LC1.31:D62)	$2.25
Social Sciences, *October 1965*[2]	(LC 1.31:D62/2)	$1.50
Water, *September 1966*	(LC 1.31:D62/3)	$1.50
Federal Government, *June 1967*[3]	(LC 1.31:D62/4)	$2.75
General Toxicology, *June 1969*	(LC 1.31:D62/5)	$3.00

[1] In part superseded by the present volume. A new volume on the Biological Sciences is scheduled for the summer of 1971.

[2] Revised volume scheduled for the fall 1971.

[3] Revised volume scheduled for early 1972.

ED 080299

A DIRECTORY OF INFORMATION RESOURCES IN THE UNITED STATES

PHYSICAL SCIENCES ENGINEERING

Science and Technology Division

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PREFACE

This directory is the sixth in a series compiled by the National Referral Center under the general title *A Directory of Information Resources in the United States*. The first of four scheduled revisions of earlier volumes in the series, the present volume updates and extends the physical sciences and engineering coverage of a directory published in 1965 under the subtitle *Physical Sciences, Biological Sciences, Engineering*. Material on the biological sciences will be presented in a separate volume. These revisions are being supported by the National Science Foundation. Previous directories and scheduled revisions are listed on the inside front cover.

A new automated system developed by the Information Systems Office of the Library of Congress has been utilized in preparing this directory. The system is being designed to provide a generalized capability for photocomposing from any data base in the Machine-Readable Cataloging (MARC) format developed by the Library for the national and international exchange of bibliographic data. Even though the directories are not bibliographic in nature, this new and more responsive method was adopted for the series to reduce the time lag between compilation and printing.

Because this volume is the first publication produced by the new system, substantial delays were encountered as part of the developmental effort; it is expected that timeliness will be significantly improved in subsequent directories. Certain peculiarities in format associated with the transition to electronic composition may also be noted, including occasional breaks between headings and text, awkward hyphenations, and improper correspondence between running heads and textual matter. It is hoped that the improved currency and frequency of the series will more than compensate for any inconvenience caused by these temporary inconsistencies in format.

Entries in the directory are based on a register of information resources that has been continuously expanded since the center was established in 1962. The approximately fourfold increase in the coverage of the present directory over that published in 1965 reflects the growth of the register during the intervening years. To ensure textual accuracy, each entry was submitted to the organization covered. The entries are alphabetically arranged and, to permit simultaneous computer preparation of the subject index, sequentially numbered. The index itself is keyed to these numbers rather than to page numbers.

Various changes in the structure of the Federal Government were taking place as the directory was being compiled. Several existing agencies were consolidated, for example, to form the National Oceanic and Atmospheric Administration and the Environmental Protection Agency. Since the full effects of these changes were still unclear, no attempt was made to reflect such reorganizations in this volume.

Comments, criticisms, and suggestions for improving the center's directories are welcome and should be directed to the Library of Congress, Science and Technology Division, National Referral Center, 10 First Street SE., Washington, D.C. 20540. Inquiries are likewise invited from organizations wishing to register their information capabilities with the center.

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PHYSICAL SCIENCES, ENGINEERING

AAI CORP. TECHNICAL LIBRARY

0001 Cockeysville, Md. 21030
Tel: (301) 666-1400 Ext. 351

AREAS OF INTEREST: Missile and space vehicle trainers and simulators; air traffic control systems; antisubmarine warfare training systems; aircraft, missile, and space vehicle ground support equipment, including automatic test; rocket propelled vehicles; chemical warfare testing devices; weapon handling systems; integrated circuit test systems; guns; ammunition; ordnance vehicles and components (cupolas, gun mounts, tank tracks, flame throwers); electric hoists; winches; car pullers; hoist and crane motor drives; hydraulic pumps; custom designed hydraulic power units.

HOLDINGS: 2,000 books; 110 periodicals; NASA reports on microfiche; 15,000 other reports.

INFORMATION SERVICES: Answers inquiries; provides literature-searching services; makes referrals; makes interlibrary loans; permits onsite use of collection by persons with a need-to-know.

ABRASIVE GRAIN ASSOCIATION

0002 2130 Keith Bldg.
Cleveland, Ohio 44115
Tel: (216) 241-7333

AREAS OF INTEREST: Abrasive grain; aluminum oxide; silicon carbide; grinding materials.

HOLDINGS: Reports, standards and specifications, press releases.

INFORMATION SERVICES: Answers brief inquiries; makes referrals.

ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA

0003 19th St. and Benjamin Franklin Parkway
Philadelphia, Pa. 19103
Tel: (215) 564-3921

AREAS OF INTEREST: Systematic biology (botany, ornithology, ichthyology, malacology, entomology); limnology; plant ecology; paleontology; geology.

HOLDINGS: Extensive study collection of birds, mammals, fish, insects, molluscs, higher plants, algae, and fossils; a library of 150,000 volumes on systematic biology, ecology, and geology; a manuscript collection of approximately 225,000 items concerning early American scientists.

PUBLICATIONS: *Proceedings of the Academy of Natural Sciences of Philadelphia* (annual); *Notulae Naturae*, short papers issued irregularly; *Frontiers* (5 numbers per year), a popular journal; 2 serials, *Monographs* and *Special Publications*, issued irregularly.

INFORMATION SERVICES: Qualified scientists may have access to all collections, the library, and other facilities. Limited identification service of plants and animals is available. The Limnology Department provides consulting and advisory services to industry and Government. The library makes interlibrary loans. Industrial firms are asked to pay library membership fee.

ACADEMY OF SCIENCE AND ART OF PITTSBURGH

0004 Carnegie Institute
4400 Forbes Ave.
Pittsburgh, Pa. 15213

0005

Astronomical Section Headquarters:

Buhl Planetarium
Allegheny Square
West Ohio and Federal Sts.
Pittsburgh, Pa. 15212

Photographic Section Headquarters:

King's Center
1251 North Negley Ave.
Pittsburgh, Pa. 15206

AREAS OF INTEREST: Astronomy; photography; travel and nature.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services. The Academy's Photographic Section sponsors the Annual Pittsburgh International Salon of Photographic Art at the Museum of Art, Carnegie Institute.

The Academy's Astronomical Section has a workshop for grinding lenses and building and assembling telescopes at the Brashear Association, 2005 Sarah Street.

ACADEMY OF SCIENCE OF ST. LOUIS

0005 2 Oak Knoll Park
St. Louis, Mo. 63105
Tel: (314) 726-2888

AREAS OF INTEREST: General science; natural history; education; museum techniques.

HOLDINGS: Nearly all of the Academy's library holdings (90,000 volumes) are deposited in the Pius XII Library of St. Louis University and Washington University Library. The Academy's Museum of Science and Natural History maintains study collections in Missouri environs archaeology, rocks and minerals, mollusks,. Missouri herpetology, antique lamps and lighting equipment, and antique radios.

PUBLICATIONS: *Museum Memo* (monthly newsletter); occasional reports.

INFORMATION SERVICES: Answers inquiries; permits onsite reference of study collections by appointment; identifies natural history specimens; conducts science programs and classes for schools and on individual basis; lends exhibits on science or natural history; sponsors field trips and lectures; conducts workshop for science teachers in cooperation with Harris Teachers College.

ACCELERATOR INFORMATION CENTER

see Oak Ridge National Laboratory

ACOUSTICAL AND INSULATING MATERIALS ASSOCIATION

0006 205 West Touhy Ave.
Park Ridge, Ill. 60068
Tel: (312) 692-5178

AREAS OF INTEREST: Noise control; fiberboard; building insulation; heat loss; use of wood and cane fiber building materials in insulating boards; sound transmission through insulating materials.

HOLDINGS: Reports, pamphlets, films, press releases.

PUBLICATIONS: *Noise Control with Insulation Board*; *How to Save With the Sheathing That Insulates*; *Fundamentals of Building Insulation*.

INFORMATION SERVICES: Answers inquiries; lends films; provides single copies of all literature free on request and up to 30 copies of *Fundamentals of Building Insulation* to high schools, colleges, and universities for use in architectural or construction classes.

ADAMS-RUSSELL CO., INC.

0007 280 Bear Hill Rd.
Waltham, Mass. 02154
Tel: (617) 899-2540

AREAS OF INTEREST: Antennas (HF).

HOLDINGS: Small reference collection of books, periodicals, and reports; military specifications.

INFORMATION SERVICES: Answers inquiries; provides duplication services; permits onsite use of collection.

ADELPHI UNIVERSITY SCIENCE LIBRARY

0008 South Ave.
Garden City, Long Island, N.Y. 11530
Tel: (516) 747-2200 Ext. 538

AREAS OF INTEREST: Mathematics, including analysis, algebra, differential equations, numerical methods, probability, and statistics; theoretical and applied physics; chemistry, including analytical, organic, physical, and biochemistry; biology.

HOLDINGS: 12,000 books; 8,000 volumes of periodicals; 2,000 microcards; 500 abstracts or indexes; 200 MS and PhD theses.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, translating, and literature-searching services to the Adelphi University community; permits onsite reference by special permission of the Director of Libraries.

THE ADHESIVE AND SEALANT COUNCIL, INC.

0009 1410 Higgins Rd.
Park Ridge, Ill. 60068
Tel: (312) 825-8196

AREAS OF INTEREST: Adhesives and sealants in solid or liquid form; raw materials for adhesives and sealants, including rubber and plastics.

HOLDINGS: 300 periodicals; bibliographies, reprints.

PUBLICATIONS: Specifications, reports, proceedings.

INFORMATION SERVICES: Makes referrals; permits onsite reference.

ADOLF MELLER CO.

0010 P.O. Box 6001
Providence, R.I. 02904
Tel: (401) 331-3717

AREAS OF INTEREST: Sapphire products; laser crystals; maser crystals; alumina powders; optical crystals; halide products; laser products.

PUBLICATIONS: Data sheets.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services free to bona fide scientific researchers.

ADVANCED TECHNOLOGY PUBLICATIONS, INC.

0011 246 Walnut St.
Newtonville, Mass. 02160
Tel: (617) 244-2939

AREAS OF INTEREST: Lasers and laser-related products and systems; opto-electronic products and systems.

HOLDINGS: Books, periodicals, reports, photos, project records, graphs, tables, standards and specifications, reviews, abstracts, newsletters, reprints, bibliographies, publication lists, pamphlets, press releases, clippings, data, domestic and foreign file of laser installations, other printed products (holograms and calculators).

PUBLICATIONS: *Laser Focus Magazine* (monthly); *Laser Report* (monthly newsletter); *Laser Focus Buyer's Guide* (annual); press releases.

INFORMATION SERVICES: Makes referrals; provides consulting services for fee; provides bibliographic services.

AERIAL PHENOMENA RESEARCH ORGANIZATION INC.

0012 3910 East Kleindale Rd.
Tucson, Ariz. 85716
Tel: (602) 793-1825

AREAS OF INTEREST: All matters relating to unidentified flying objects (UFO's), including the collection and development of reports relating to their nature and origin and inherent connotations relating to social and technical developments.

HOLDINGS: 20,000 reports; UFO photos; books, periodicals.

PUBLICATIONS: *The A.P.R.O. Bulletin* (bimonthly); reports, photos.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, literature-searching, and duplication services. Services are provided only when it is determined that the Organization's efforts will be advanced by providing the services; a nominal charge is made for services in most cases.

AEROJET-GENERAL CORP.

Advanced Products Group

0013 Aerojet-General Corp.
9200 East Flair Dr.
El Monte, Calif. 91734
Tel: (213) 443-4271

AREAS OF INTEREST: Space vehicles; sounding rockets; small satellites; guidance; microwave detectors, sensors, instrumentation, and communications; medical biochemistry; surface effects ships.

HOLDINGS: 10,000 reports; 5,000 books; periodicals, abstracts, indexes.

INFORMATION SERVICES: Permits onsite use of collection.

Ordnance Division Technical Library

0014 Aerojet-General Corp.
9236 East Hall Rd.
Downey, Calif. 90241
Tel: (213) 923-7511 Ext. 2631

AREAS OF INTEREST: Ordnance; physics; chemistry; metallurgy; pressure vessels; engineering.

HOLDINGS: 7,900 volumes, including bound periodicals; 165,000 microfiche; 18,000 reports (hard copy).

INFORMATION SERVICES: Permits onsite reference by Government employees and Government contractors with certified need-to-know.

Technical Information Center

0015 Aerojet-General Corp.
P.O. Box 15847
Sacramento, Calif. 95813
Tel: (916) 355-6711

AREAS OF INTEREST: Chemistry; rocketry; rocket propellants and propulsion; metallurgy; engineering; mathematics; aeronautics; astronautics.

HOLDINGS: 20,000 books; 6,000 bound periodicals; 100,000 reports; 300,000 microfiche; vendor files on microfilm.

PUBLICATIONS: Accessions list.

INFORMATION SERVICES: Permits onsite reference by Government employees.

AERONOMY LABORATORY

see Commerce, Department of. Environmental Science Services Administration. Research Laboratories

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC.

0016 1725 DeSales St. NW.
Washington, D.C. 20036
Tel: (202) 347-2315 Ext. 274

AREAS OF INTEREST: Aeronautics and astronautics; economics and finance related to the aerospace industry.

HOLDINGS: Periodicals, Government reports and hearings, industrial literature, monographs, surveys, studies, annual reports of aerospace industry.

PUBLICATIONS: *Aerospace* (bimonthly); *Aerospace Facts and Figures* (annual); annual report, miscellaneous publications.

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans; permits onsite reference; lends materials to member companies and other approved visitors.

AEROSPACE INSTRUMENTATION LABORATORY

see Air Force, Department of the. Air Force Systems Command. Cambridge Research Laboratories

AEROSPACE MATERIALS INFORMATION CENTER

see Air Force, Department of the. Air Force Systems Command

AEROSPACE RESEARCH LABORATORIES

see Air Force, Department of the. Air Force Systems Command

AEROSPACE SYSTEM SAFETY SOCIETY

0017 P.O. Box 46264
Los Angeles, Calif. 90046

Location:
1125 North Fairfax Ave.
Los Angeles, Calif.
Tel: (213) 654-8595

AREAS OF INTEREST: Aerospace, terrestrial, and hydrospace system safety engineering.

HOLDINGS: 80 reports.

PUBLICATIONS: *Hazard Prevention* (monthly).

INFORMATION SERVICES: Answers brief inquiries.

AGENCY FOR INTERNATIONAL DEVELOPMENT

see State, Department of

AGRICULTURE, DEPARTMENT OF

Agricultural Research Service

Eastern Utilization Research and Development Division

0018 Agricultural Research Service
600 East Mermaid Lane
Philadelphia, Pa. 19118
Tel: (215) 247-5800 Extt. 215

AREAS OF INTEREST: Chemistry; biochemistry; chemical engineering; dairy products; detergents; food technology; fruit and vegetable utilization; hides and leather; industrial wastes; meat; milk; oils and fats; polymers; proteins; spectrum analysis; tobacco.

HOLDINGS: 3,500 books; 450 periodical titles; USDA publications.

PUBLICATIONS: Directories; reports, monthly list of new accessions.

INFORMATION SERVICES: Answers inquiries; provides reference services; permits onsite use of collection by technically and professionally trained personnel.

Information Division

0019 Agricultural Research Service
East-West Highway and Belcrest Rd.
Hyattsville, Md. 20782
Tel: (202) 388-8305

AREAS OF INTEREST: Agricultural research.

PUBLICATIONS: Books, pamphlets, leaflets, information bulletins.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Northern Utilization Research and Development Division

0020 Agricultural Research Service, USDA
1815 North University St.
Peoria, Ill. 61604
Tel: (309) 685-4011

AREAS OF INTEREST: Chemical, microbiological, and engineering research and development on food and industrial uses of corn, wheat, grain sorghum, other cereal grains, soybeans, flaxseed, erucic acid-containing oilseed crops, and new crops.

HOLDINGS: 30,000 books; 700 periodical titles.

INFORMATION SERVICES: Answers inquiries; provides reference services; makes interlibrary loans; permits onsite use of collection by technically and professionally trained personnel.

Facilities include a microfilm reader-printer and Xerox machine.

Pesticides Regulation Division

0021 Agricultural Research Service
U.S. Department of Agriculture
Washington, D.C. 20250
Tel: (202) 388-4267

AREAS OF INTEREST: Review of safety and efficacy data submitted by applicants for registration of pesticide chemicals.

INFORMATION SERVICES: Answers letters of inquiry about registered pesticides.

Soil and Water Conservation Research Division

0022 Agricultural Research Service
Plant Industry Station
Beltsville, Md. 20705
Tel: (301) 474-6500 Ext. 571

AREAS OF INTEREST: Watershed engineering (watershed hydrology, ground-water recharge, sedimentation, hydraulics of water control structures); water management (water erosion control and stream channel stabilization, water conservation, irrigation, drainage salinity, remote sensing, wind erosion control); soil management (soil tillage, structure and fertility, pesticide residues, animal wastes disposal, water pollution, soil-plant relationships, microclimatology).

HOLDINGS: Soil, sediment, and water samples; research data, books, journals, reports.

PUBLICATIONS: *Hydrologic Data for Experimental Agricultural Watersheds in the United States*; books, bibliographies.

INFORMATION SERVICES: Answers inquiries concerning the Division's research program; makes referrals.

SNAKE RIVER CONSERVATION RESEARCH CENTER

0023 Route 1, Box 186
Kimberly, Idaho 83341
Tel: (208) 423-5582

AREAS OF INTEREST: Soil and water management problems prevalent on irrigated lands and associated dryland farms and rangelands in the upper Snake River Valley and similar agricultural areas; soil-water-plant chemistry; soil physics; irrigation engineering (automatic control devices for irrigation, water-measuring devices, hydraulics of surface irrigation methods and return flow systems, sprinkler irrigation, irrigation efficiencies); mulches; slick spot soils; agro-meteorology and irrigation scheduling.

HOLDINGS: 500 books; 100 periodical titles; 200 reports.

PUBLICATIONS: Articles in technical journals and in special publications of the Department of Agriculture and the University of Idaho (a list is available)

INFORMATION SERVICES: Answers inquiries; provides consulting services as time permits; disseminates publications relating to research.

The Center has laboratory facilities and equipment for soil-water-plant chemistry, plant nutrition, soil physics, and soil and water microbiology; constant temperature rooms; greenhouse; growth chambers; and experimental areas, including 30 acres immediately surrounding the Center and plots over an area from western Wyoming to eastern Oregon.

Southeastern Utilization Research and Development Division

0024 Agricultural Research Service
P.O. Box 5677
Athens, Ga. 30604
Tel: (404) 546-3311

AREAS OF INTEREST: Research on production, utilization, and marketing of agricultural commodities and products, including fruits, vegetables, tree nuts, forage and other feed products, oilseeds, poultry, and livestock products.

PUBLICATIONS: Research reports, abstracts.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services.

Southern Utilization Research and Development Division

0025 Agricultural Research Service
P.O. Box 19687
New Orleans, La. 70119

Location:
1100 Robert E. Lee Blvd.
New Orleans, La.
Tel: (504) 527-7544

AREAS OF INTEREST: Utilization research on cotton, cottonseed, peanuts, rice, pine gum, citrus fruits, sweet potatoes, cucumbers, and other Southern-grown vegetables.

HOLDINGS: Books, journals, reports, patents.

PUBLICATIONS: *List of Publications and Patents with Abstracts* (semiannual, available free on request); occasional bibliographies.

INFORMATION SERVICES: Answers inquiries; provides consulting services; provides reprints of technical papers reporting the Division's research findings; makes interlibrary loans; permits onsite use of collection by technically and professionally trained personnel.

Western Utilization Research and Development Division

0026 Agricultural Research Service
800 Buchanan St.
Albany, Calif. 94710
Tel: (415) 525-2244

AREAS OF INTEREST: Basic and applied research on food, feed, and fibers, including the following commodities: Western fruits (citrus and other subtropical and tropical fruits); tree nuts; vegetables; poultry products; forage crops; wheat; rice; barley; wool and mohair; dry beans and peas; castor, safflower, and western oilseeds. Project interests include product and process development and improvement to promote greater uses of farm crops, enhance rural area development, promote foreign trade, reduce hunger at home and abroad, reduce pollution of air, water, and soil, and improve quality and safety of consumer products.

HOLDINGS: Books, technical reports, reprints of articles that have appeared in scientific and technical journals.

PUBLICATIONS: *List of Publications and Patents with Abstracts* (semiannual, available free on request); directories, bibliographies, reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes interlibrary loans; permits onsite use of collection by technically and professionally trained personnel.

Agricultural Stabilization and Conservation Service

Compliance and Appeals Division

AERIAL PHOTOGRAPHY BRANCH

0027 Agricultural Stabilization and Conservation Service
14th St. and Independence Ave. SW.
Washington, D.C. 20250
Tel: (202) 388-7813

AREAS OF INTEREST: Aerial photography.

PUBLICATIONS: *Aerial Photography Status Maps* (showing counties covered in each State).

INFORMATION SERVICES: Answers inquiries. Aerial photographs are for sale.

Cooperative State Research Service

0028 U.S. Department of Agriculture
14th St. and Independence Ave. SW.
Washington, D.C. 20250
Tel: (202) 388-6841

The Cooperative State Research Service coordinates agricultural and forestry research conducted by State agricultural experiment stations and schools of forestry with similar research in the U.S. Department of Agriculture. It assists State station directors, deans of several schools of forestry, and workers in identifying major problem areas and provides professional review of scientific programs under way. For general information and State publications, inquirers should contact the agricultural experiment station or school of forestry in their States.

AREAS OF INTEREST: Animal husbandry, physiology, pathology, and nutrition of beef and dairy cattle, sheep, swine, and poultry; agronomy; plant pathology and physiology; entomology; horticulture; forestry; plant genetics; soil science; agricultural engineering; food technology; dairy technology; human nutrition; home economics; rural sociology and recreation.

PUBLICATIONS: Statistical reports, handbooks, newsletters.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

Economic Research Service

Natural Resources Economics Division

WATER RESOURCES BRANCH

0029 Natural Resources Economics Division
Economic Research Service
U.S. Department of Agriculture, RP-E
Washington, D.C. 20250
Tel: (703) 557-4407

AREAS OF INTEREST: Economics of utilization of water resources, including supply and use inventories, trends and current changes, and quality management; economics of water application, conservation, management, and transfer; water control problems, water resource requirements, and water development potentials; regional and area water use planning and procedures and standards for planning and evaluation.

INFORMATION SERVICES: Answers inquiries, preferably by correspondence; disseminates research publications of the Economic Research Service and those published jointly with other agencies of USDA and other departments of the Government.

Farmers Home Administration

0030 U.S. Department of Agriculture
14th St. and Independence Ave. SW.
Washington, D.C. 20250
Tel: (202) 388-4031

AREAS OF INTEREST: Financial and management assistance to farmers, local organizations, and public agencies; community water supply systems; sewage and waste disposal systems; soil conservation measures; land-use shifts to grassland and forestry; recreation areas; watershed projects; rural area renewal and development.

HOLDINGS: Films, photos, slides, clippings.

PUBLICATIONS: Pamphlets.

INFORMATION SERVICES: Answers inquiries regarding credit and grant services.

Forest Service

Division of Cooperative Forest Management

0031 Forest Service, USDA
South Bldg., Room 3242
12th St. and Independence Ave. SW.
Washington, D.C. 20250
Tel: (202) 388-2270

AREAS OF INTEREST: Forest management and forest products utilization; timber improvement; marketing; resource conservation; flood prevention; forest pest control; rural areas development.

HOLDINGS: Small collection of periodicals and reports.

PUBLICATIONS: *State Agencies Cooperating with the U.S. Department of Agriculture Forest Service in Administration of Various Forestry Programs* (directory); *Managing the Family Forest* (bulletin); various pamphlets.

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes referrals.

Division of Engineering

0032 Forest Service, USDA
Washington, D.C. 20250

Location:

Rosslyn Plaza East, Room 1109-E
1621 North Kent St.
Arlington, Va.
Tel: (703) 557-4393

AREAS OF INTEREST: Engineering activities involved with forest management, including planning, design, construction, maintenance, and operation of forest roads and trails; recreation facilities; administrative sites; water control facilities; surveys and maps; and other forest equipment and facilities.

HOLDINGS: 500 books; 50 periodical titles; 1,000 reports.

PUBLICATIONS: Periodicals, reports.

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans; permits onsite use of literature collection.

Division of Flood Prevention and River Basin Programs

0033 Forest Service, USDA
South Bldg., Room 4208
12th St. and Independence Ave. SW.
Washington, D.C. 20250
Tel: (202) 388-2289

AREAS OF INTEREST: Flood prevention and river basin planning on State and private forest lands; hydrology; watershed management practices, planning, and design, including effects of sediment and erosion control, irrigation, planting and terracing, reforestation, grazing control, and fire control.

HOLDINGS: Reports, data compilations.

INFORMATION SERVICES: Answers technical inquiries; makes referrals.

Division of Forest Environment Research

WATERSHED AND AQUATIC HABITAT RESEARCH BRANCH

0034 Division of Forest Environment Research
Forest Service, USDA
Washington, D.C. 20250

Location:

Rosslyn Plaza East, Room 808
1621 North Kent St.
Arlington, Va.
Tel: (703) 557-4669 or 557-4291

AREAS OF INTEREST: Forest soil improvement and water yield improvement by vegetation management and other methods; reduction of water losses; soil-plant-water relationships; phreatophyte control; snow management; evapotranspiration from forest lands; watershed protection and rehabilitation; erosion control; soil and water control; pathway and fate of pollutants.

HOLDINGS: Research data.

PUBLICATIONS: Research papers and notes, scientific journal articles.

INFORMATION SERVICES: Answers technical inquiries or refers inquirers to appropriate Forest Experiment Station.

Division of Forest Fire and Atmospheric Sciences Research

0035 Forest Service, USDA
Washington, D.C. 20250

Location:

Rosslyn Plaza East, Room 606-F
1621 North Kent St.
Arlington, Va.
Tel: (703) 557-4891

AREAS OF INTEREST: Forest fire science; atmospheric sciences; human and physical aspects of forest fire prevention; forest fire control methods and systems; beneficial uses of fire; weather modification.

HOLDINGS: Very limited central supply of reprints, reports, etc.

PUBLICATIONS: Annual listing of Forest Service experimental stations' publications relating to forest fire and atmospheric sciences research.

INFORMATION SERVICES: Answers inquiries or refers inquirers to research specialists located at seven field fire research offices; provides consulting services.

Division of Forest Products and Engineering Research

0036 U.S. Forest Service
12th St. and Independence Ave. SW.
Washington, D.C. 20250
Tel: (202) 388-5653

AREAS OF INTEREST: Forest products utilization; timber and wood quality; processes and product development; wood chemistry and fiber products; wood engineering; forest engineering, including timber harvesting systems.

HOLDINGS: Technical reports, handbooks, monographs.

PUBLICATIONS: Technical reports, handbooks, monographs.

INFORMATION SERVICES: Inquiries are answered or referred to the appropriate Forest Experiment Station.

Division of Information and Education

0037 Forest Service, USDA
12th St. and Independence Ave. SW.
Washington, D.C. 20250
Tel: (202) 388-6957 or 388-3957

AREAS OF INTEREST: Forestry and related agricultural, economic, and biological subject fields; timber harvesting; forest disease and insect pest control; foreign forest resources; forest genetics, physiology, dendrology, and economics; forest product utilization and marketing; forest surveys; forest soil and water; civil engineering; surveying; mapping; forest fire prevention and control; fire control equipment and aviation; land acquisition, use, and classification; management of watersheds, range, timber, and wildlife; forest recreation; flood prevention; hydrology; range and wildlife habitats; log and tree grades; naval stores.

HOLDINGS: Books, reports, bulletins, reprints, photos.

PUBLICATIONS: Technical reports, pamphlets, handbooks, bibliographies.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, reference, and document services; prepares special articles and press releases.

Division of Watershed Management

0038 Forest Service, USDA
Washington, D.C. 20250

Location:
Rosslyn Plaza East, Room 810
1621 North Kent St.
Arlington, Va.
Tel: (703) 557-4671

AREAS OF INTEREST: All phases of managing the mineral, soil, and water resources of National Forest System lands; soil and hydrologic surveys; municipal supply watershed management; increasing water yields through snowpack management and vegetation manipulation; water quality management; restoration of deteriorated watersheds; watershed protection; erosion control; water rights for National Forest management; coordination of water resource development projects with other National Forest System purposes.

HOLDINGS: Photographic and film library; small reference library; manuals, technical handbooks, data compilations, operational reports.

PUBLICATIONS: Scientific and semitechnical papers published in professional journals and proceedings.

INFORMATION SERVICES: Answers inquiries concerning the technical and operational phases of watershed and mineral management on National Forest System lands.

Forest Experiment Stations

INTERMOUNTAIN FOREST AND RANGE EXPERIMENT STATION

0039 U.S. Forest Service
507 25th St.
Ogden, Utah 84401
Tel: (801) 399-6011

AREAS OF INTEREST: Forestry; timber and watershed management; forest fires; forest insects, diseases, engineering, recreation, and economics; forest surveys; forest products utilization and marketing; wildlife habitats; range management.

HOLDINGS: Books, journals, reports, photos, motion pictures.

PUBLICATIONS: Technical and survey reports, handbooks, monographs, bibliographies, literature reviews, bulletins.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, and document services; permits onsite use of literature collection.

NORTH CENTRAL FOREST EXPERIMENT STATION

0040 U.S. Forest Service
Folwell Ave.
St. Paul, Minn. 55101
Tel: (612) 645-0841

AREAS OF INTEREST: Forestry; timber and watershed management; forest fires; forest insects, diseases, engineering, recreation, and economics; forest surveys; forest products utilization and marketing; wildlife habitats; range management.

HOLDINGS: Books, journals, reports, photos, motion pictures.

PUBLICATIONS: Technical and survey reports, handbooks, monographs, bibliographies, literature reviews, bulletins.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, and document services; permits onsite use of literature collection.

NORTHEASTERN FOREST EXPERIMENT STATION

0041 U.S. Forest Service
6816 Market St.
Upper Darby, Pa. 19082
Tel: (215) 352-5800

AREAS OF INTEREST: Forestry; timber and watershed management; forest fires; forest insects, diseases, engineering, recreation, and economics; forest surveys; forest products utilization and marketing; wildlife habitats; range management.

HOLDINGS: Books, journals, reports, photos, motion pictures.

PUBLICATIONS: Technical and survey reports, handbooks, monographs, bibliographies, literature reviews, bulletins.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, and document services; permits onsite use of literature collection.

PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION

0042 U.S. Forest Service
P.O. Box 3141
Portland, Oreg. 97208

Location:

809 Northeast 6th Ave.
Portland, Oreg.
Tel: (503) 234-3361

AREAS OF INTEREST: Forestry; timber and watershed management; forest fires; forest insects, diseases, engineering, recreation, and economics; forest surveys; forest products utilization and marketing; wildlife habitats; range management.

HOLDINGS: Books, journals, reports, photos, motion pictures.

PUBLICATIONS: Technical and survey reports, handbooks, monographs, bibliographies, literature reviews, bulletins.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, and document services; permits onsite use of literature collection.

Forest Hydrology Laboratory

0043 P.O. Box 1628
Wenatchee, Wash. 98801

Location:

1133 North Western Ave.
Wenatchee, Wash.
Tel: (509) 663-8511

AREAS OF INTEREST: Forest hydrology; forest climatology; tree physiology; forest soils; forest and range ecology.

HOLDINGS: Small collection of books, periodicals, and reports.

PUBLICATIONS: Periodicals, research notes, research papers, abstracts, bibliographies, reports.

INFORMATION SERVICES: Answers inquiries. Current progress research reports are available through CRIS.

Institute of Northern Forestry

0044 P.O. Box 909
Juneau, Alaska 99801
Tel: (907) 586-7301

AREAS OF INTEREST: Timber management; watershed management; forest fire; forest insects; forest survey (Alaska).

HOLDINGS: 1,000 books; 12,000 reports; 100 journals.

PUBLICATIONS: Technical reports, bulletins, literature reviews, survey reports, monographs, handbooks, bibliography.

INFORMATION SERVICES: Answers inquiries; provides consulting services; disseminates publications; permits onsite use of collection.

PACIFIC SOUTHWEST FOREST AND RANGE EXPERIMENT STATION

0045 U.S. Forest Service
P.O. Box 245
Berkeley, Calif. 94701

Location:

1960 Addison St.
Berkeley, Calif.
Tel: (415) 841-5121

AREAS OF INTEREST: Forestry; timber and watershed management; forest fires; forest insects, diseases, engineering, recreation, and economics; forest surveys; forest products utilization and marketing; wildlife habitats; range management.

HOLDINGS: Books, journals, reports, photos, motion pictures.

PUBLICATIONS: Technical and survey reports, handbooks, monographs, bibliographies, literature reviews, bulletins.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, and document services; permits onsite use of literature collection.

Institute of Pacific Islands Forestry

0046 530 South Hotel St.
Honolulu, Hawaii 96814
Tel: (808) 546-5644

AREAS OF INTEREST: Forestry; watershed management; forest products; timber management; fire prevention; erosion control.

HOLDINGS: Small collection of reports.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

ROCKY MOUNTAIN FOREST AND RANGE EXPERIMENT STATION

0047 U.S. Forest Service
240 West Prospect St.
Fort Collins, Colo. 80521
Tel: (303) 482-7332

AREAS OF INTEREST: Forestry; timber and watershed management; forest fires; forest insects, diseases, engineering, recreation, and economics; forest surveys; forest products utilization and marketing; wildlife habitats; range management.

HOLDINGS: Books, journals, reports, photos, motion pictures.

PUBLICATIONS: Technical and survey reports, handbooks, monographs, bibliographies, literature reviews, bulletins.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, and document services; permits onsite use of literature collection.

Forest Hydrology Laboratory

0048 Arizona State University Campus
Tempe, Ariz. 85281
Tel: (602) 261-4365

AREAS OF INTEREST: Research in water yield improvement in the Southwest and improvement of wildlife habitat in the Southwest.

HOLDINGS: Small collection of books, periodicals, and reports.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; provides reference and consulting services; permits onsite use of collection.

SOUTHEASTERN FOREST EXPERIMENT STATION

0049 U.S. Forest Service
P.O. Box 2570
Asheville, N.C. 28802

Location:

223 Post Office Bldg.
Asheville, N.C.
Tel: (704) 254-0961

AREAS OF INTEREST: Forestry; timber and watershed management; forest fires; forest insects, diseases, engineering, recreation, and economics; forest surveys; forest products utilization and marketing; wildlife habitats; range management.

HOLDINGS: Books, journals, reports, photos, motion pictures.

PUBLICATIONS: Technical and survey reports, handbooks, monographs, bibliographies, literature reviews, bulletins.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, and document services; permits onsite use of literature collection.

Coweeta Hydrologic Laboratory

0050 Box 601
Franklin, N.C. 28734
Tel: (704) 524-2025

AREAS OF INTEREST: Forest hydrology; plant physiology; soil physics; hydrometeorology.

HOLDINGS: Small collection of reports.

PUBLICATIONS: Abstracts, reports.

INFORMATION SERVICES: Answers inquiries; provides limited consulting services.

Southern Forest Fire Laboratory

0051 U.S. Forest Service
P.O. Box 185
Macon, Ga. 31202

Location:

Riggins Mill Rd.
Macon, Ga.
Tel: (912) 746-3531

AREAS OF INTEREST: Forest fires, including fire control, fire use, fire behavior, fire weather, and fuels.

HOLDINGS: 1,000 reports; books, periodicals.

PUBLICATIONS: *Research Notes*; *Research Papers*.

INFORMATION SERVICES: Permits onsite use of collection.

SOUTHERN FOREST EXPERIMENT STATION

0052 U.S. Forest Service
T-10210 Federal Bldg.

701 Loyola Ave.
New Orleans, La. 70113
Tel: (504) 527-6787

AREAS OF INTEREST: Forestry; timber and watershed management; forest fires; forest insects, diseases, engineering, recreation, and economics; forest surveys; forest products utilization and marketing; wildlife habitats; range management.

HOLDINGS: Books, journals, reports, photos, motion pictures.

PUBLICATIONS: Technical and survey reports, handbooks, monographs, bibliographies, literature reviews, bulletins.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, and document services; permits onsite use of literature collection.

Forest Hydrology Laboratory

0053 Box 70
Oxford, Miss. 38655

Location:

Highway 6 Bypass
Oxford, Miss.
Tel: (601) 234-2744

AREAS OF INTEREST: Forestry; ground-water hydrology.

HOLDINGS: Small collection of books, periodicals, and reports.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries.

Forest Products Laboratory

0054 U.S. Forest Service
North Walnut St.
P.O. Box 5130
Madison, Wis. 53705
Tel: (608) 257-2211

AREAS OF INTEREST: Forest products utilization; wood quality; solid wood products; wood engineering; wood chemistry; wood fiber products.

HOLDINGS: Books, journals, reports, photos, films.

PUBLICATIONS: Technical and survey reports, handbooks, monographs, bibliographies, literature reviews, bulletins.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, and document services; permits onsite use of literature collection.

State and Private Forestry

NORTHEASTERN AREA

0055 State and Private Forestry
U.S. Forest Service
6816 Market St.
Upper Darby, Pa. 19082
Tel: (215) 352-5800

AREAS OF INTEREST: Forest fire control; forest pest control; flood prevention; river basin programs; rural area development; tree planting; woodland management; utilization and marketing of timber and forest products.

HOLDINGS: Books, reports, bulletins, films, reprints.

PUBLICATIONS: Reports, reprints, leaflets.

INFORMATION SERVICES: Answers inquiries and provides consulting and advisory services in cooperation with State Foresters.

SOUTHEASTERN AREA

0056 State and Private Forestry
U.S. Forest Service
1720 Peachtree Rd. NW., Suite 700
Atlanta, Ga. 30309
Tel: (404) 526-5964

AREAS OF INTEREST: Forest fire control; forest pest and environmental quality control; flood prevention; river basin programs; rural area development; woodland management; utilization and marketing of forest products; organization management and management systems; implementation of forest-related research.

HOLDINGS: Books, reports, bulletins, films, reprints.

PUBLICATIONS: Reports, reprints, leaflets, workbooks, field guides.

INFORMATION SERVICES: Answers inquiries and provides consulting and advisory services in cooperation with State Foresters.

National Agricultural Library

0057 U.S. Department of Agriculture
Beltsville, Md. 20705
Tel: (301) 345-6200 Ext. 255 (Division of Reference)
(301) 345-6200 Ext. 272 (Divison of Lending)

Bee Culture Branch

Agricultural Research Center
Building A
Beltsville, Md. 20705
Tel: (301) 474-4800 Ext. 291

District of Columbia Branch

U.S. Department of Agriculture
South Bldg., Room 1052
14th St. and Independence Ave. SW.
Washington, D.C. 20250

Law Branch

U.S. Department of Agriculture
South Bldg., Room 2016
14th St. and Independence Ave. SW.
Washington, D.C. 20250
Tel: (202) 388-7751

AREAS OF INTEREST: General agriculture; economic aspects of agriculture, including production, marketing, and transportation; botany; chemistry; animal industry; veterinary medicine; biology; rural sociology; forestry; entomology; law; food and nutrition; soils and fertilizers; all aspects of pest control and pesticides.

HOLDINGS: 1.3 million volumes, including books and bound journals, current periodicals, reports, maps, charts, posters, and microforms. The literature is in 50 languages and includes material from 200 foreign countries. Special collections are available at the branch libraries. The Bee Culture Branch, which maintains the *Beekeeping Bibliography* in card form, compiles material on beekeeping, bee diseases, plant pollination, insecticides, and floral sources of honey. The Law Branch houses material on the agricultural aspects of U.S. statute and case law; it also prepares legislative histories.

PUBLICATIONS: Indexes and bibliographies, including *Bibliography of Agriculture*, a monthly index of the world literature on agriculture and related chemical and biological subjects.

INFORMATION SERVICES: Answers reference questions and makes brief literature searches without charge. Photocopying is done at cost. The holdings of the National Agricultural Library and its branches are open to the public for onsite reference, and material may be borrowed through interlibrary loan.

Office of Information

0058 U.S. Department of Agriculture
14th St. and Independence Ave. SW.
Washington, D.C. 20250
Tel: (202) 388-2791

AREAS OF INTEREST: Department of Agriculture activities.

INFORMATION SERVICES: The Office of Information disseminates general information on Department activities and serves as a channel for all official USDA information. The Office also administers the publications program of the Department of Agriculture and produces and distributes motion pictures, exhibits, photographs, slide sets, and other visual aids. Technical inquiries are generally referred to specialists of the Department for answers.

Rural Electrification Administration

Electric Operations and Standards Division

0059 Rural Electrification Administration
U.S. Department of Agriculture
14th St. and Independence Ave. SW.
Washington, D.C. 20250
Tel: (202) 388-3621

AREAS OF INTEREST: Electric engineering related to the design, construction, operation, and maintenance of electric distribution, transmission, and generation facilities in rural areas.

INFORMATION SERVICES: Answers inquiries.

Information Services Division

0060 Rural Electrification Administration
U.S. Department of Agriculture
14th St. and Independence Ave. SW.
Washington, D.C. 20250
Tel: (202) 388-5606

AREAS OF INTEREST: Rural electrification and telephone systems.

PUBLICATIONS: Bulletins on the engineering, management, financial, accounting, and legal aspects of electric and telephone systems in the rural United States. A publications list is available.

INFORMATION SERVICES: Answers inquiries.

Telephone Operations and Standards Division

0061 Rural Electrification Administration
U.S. Department of Agriculture
14th St. and Independence Ave. SW.
Washington, D.C. 20250
Tel: (202) 388-6985

AREAS OF INTEREST: Electronic and wire communication engineering related to the design, construction, operation, and maintenance of telephone facilities in rural areas.

INFORMATION SERVICES: Answers inquiries.

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Science and Education Staff

Current Research Information System (CRIS)

0062 Science and Education Staff
U.S. Department of Agriculture
South Bldg., Room 6818
14th St. and Independence Ave. SW.
Washington, D.C. 20250
Tel: (202) 388-7273

A computer-based information storage and retrieval system, CRIS is designed to improve communications among agricultural research scientists, especially with regard to research work currently under way, and to provide research managers with up-to-date and coordinated information on the total research programs of USDA and the State Agricultural Experiment Stations.

AREAS OF INTEREST: Current agricultural research activities of the U.S. Department of Agriculture (USDA), the State Agricultural Experiment Stations, and other cooperating institutions.

HOLDINGS: About 24,000 Research Work Unit (project) descriptions, spanning the total research effort sponsored by six USDA agencies (Agricultural Research Service, Forest Service, Economic Research Service, Cooperative State Research Service, Farmer Cooperative Service, and Statistical Reporting Service), 53 State Agricultural Experiment Stations, 16 former Negro Land-Grant Institutions, and nine Forestry Schools. Information stored on magnetic tape includes a brief description of the Research Work Unit including title, objectives, plan of work, current progress, the more important publications, name of principal investigator, performing institution and cooperators, amount of money allocated and sources of funds, and manpower allocations by types (scientists, professional support, and other personnel).

PUBLICATIONS: Primarily computer printouts for internal use.

INFORMATION SERVICES: Answers inquiries regarding research projects or refers inquirers to persons performing the research.

Soil Conservation Service

Information Division

0063 Soil Conservation Service
U.S. Department of Agriculture
14th St. and Independence Ave. SW.
Washington, D.C. 20250
Tel: (202) 388-4543

AREAS OF INTEREST: Soil and water conservation; soil classification and geography; soil chemistry; agronomy; plant materials; range and woodland conservation and improvement; watershed protection; flood prevention; erosion control; water yield and use; irrigation and drainage; channel improvement; sediment yield and transport; small watershed hydrology.

HOLDINGS: Literature, data.

PUBLICATIONS: Bulletins, handbooks.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite use of collection by approved visitors.

AIR-CONDITIONING AND REFRIGERATION INSTITUTE

0064 1815 North Fort Myer Dr.
Arlington, Va. 22209
Tel: (703) 524-8800

AREAS OF INTEREST: Engineering activities (including equipment and application standards and certification programs), legislative activities, statistics, and other functions involved with air-conditioning and refrigeration equipment and components, including field-installed systems, unitary air-conditioners, heat pumps, liquid-chilling packages, compressors, humidifiers, dehumidifiers, valves, driers, fittings, accessories, refrigerants, water coolers, and mobile air-conditioning and refrigeration.

HOLDINGS: Manufacturers' catalogs, standards, data books, technical and engineering publications.

PUBLICATIONS: Standards and technical publications.

INFORMATION SERVICES: Answers inquiries; makes referrals.

AIR DIFFUSION COUNCIL

0065 435 North Michigan Ave.
Chicago, Ill. 60611
Tel: (312) 527-5494

AREAS OF INTEREST: Air diffusion; air circulation; airflow regulators.

PUBLICATIONS: Standards and specifications, preprints, reprints, press releases.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services for fee.

AIR FORCE, DEPARTMENT OF THE

Aerospace Defense Command

Headquarters 14th Aerospace Force

0066 Office of Information
Headquarters 14th Aerospace Force
Ent Air Force Base, Colo. 80912
Tel: (303) 635-3911 Ext. 6877

AREAS OF INTEREST: Ballistic missile early warning systems; radar and optical satellite tracking systems; historical satellite records.

HOLDINGS: The Command's Programming and Analysis Center at the Ent Air Force Base maintains the USAF SPACETRACK archives (currently classified SECRET/NOFORN), consisting of all the element cards and tapes on every satellite that has ever been launched into space, plus all those that have broken up in space and become separate satellites.

PUBLICATIONS: *Q Point* (monthly house organ).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides advisory and reference services to Government agencies and bona fide news media representatives.

Air Force Academy Library

0067 Academy Library (DFSLB)
U.S. Air Force Academy, Colo. 80840
Tel: (303) 472-2590

AREAS OF INTEREST: Usual college library subjects, with special emphasis on aeronautics, military subjects, and falconry.

HOLDINGS: 250,000 books; 2,000 periodical titles; 20,000 technical reports; over 100,000 reports on microfiche (AD 600,000 series); special collection of archival material relating to the Academy; papers of some Air Force leaders. Military and aeronautics materials are both historical and current.

PUBLICATIONS: Abstracts, bibliographies.

INFORMATION SERVICES: Answers inquiries (mail inquiries are handled if staff time permits); makes interlibrary loans. Library services are normally restricted to Academy personnel, but are available to others with written permission.

Air Force Logistics Command

Chemical and Materials Laboratories

0068 Warner Robins Air Materiel Area
Robbins Air Force Base, Ga. 31093
Tel: (912) 926-2306

AREAS OF INTEREST: Chemistry and metallurgy of Air Force materials.

PUBLICATIONS: Reports, specifications.

INFORMATION SERVICES: Answers inquiries from Department of Defense agencies. Information to others must be cleared through the Warner Robins Air Materiel Area Office of Information.

Directorate of Maintenance Technology

0069 Deputy Chief of Staff for Maintenance
Office of the Director
Tinker Air Force Base, Okla. 73145
Tel: (405) 732-7321 Ext. 5775

AREAS OF INTEREST: Improvements in organic depot repair operations of Air Force systems and systems components; new repair and maintenance processes; coatings and coverings; cleaning and removal; test, measurement, and calibration; materials conditioning and handling; machining and forming; joining and disjoining; automating repair processes, operations, and requirements; environmental controls; nondestructive and destructive tests and inspection techniques; pressure, vacuum, and temperature effects; painting, plating, and protective techniques; shaping, welding, brazing, bonding, and fastening; stress relieving, peening, and surface conditioning; metrology, alignment, inspection, and instrumentation techniques.

HOLDINGS: A working collection of books, periodicals, and technical reports.

PUBLICATIONS: *Notes from MTD* (includes feature articles, technical notes, abstracts, and items of interest); project reports, technical reports, specifications.

INFORMATION SERVICES: Answers inquiries; disseminates project results in report forms; provides advisory and consulting services. Services are primarily for Department of Defense (AFLC) repair and maintenance organic depots, but can be provided to similar industrial, commercial, and academic operations when warranted and proprietary and security restrictions permit.

Air Force Systems Command

Aerospace Materials Information Center

0070 Air Force Materials Laboratory
Wright-Patterson Air Force Base, Ohio
45433
Tel: (513) 255-5607 or 255-2160

AREAS OF INTEREST: Physical, including mechanical, electrical, and thermophysical, properties of nonbiological materials of interest to the Air Force. Materials categories specified are metals, ceramics, polymers, fibrous materials, composites, adhesives, coatings, fuels, and lubricants.

HOLDINGS: 50,000 technical reports.

PUBLICATIONS: *Materials Information Bulletin* (weekly); *Abstracts of Active Contracts* and *Abstracts of AF Materials Laboratory Reports* (both annual); *Materials Briefs* (approximately monthly); technical reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference.

Aerospace Medical Division

6570TH AEROSPACE MEDICAL RESEARCH LABORATORIES

Scientific and Technical Information Office

0071 6570th Aerospace Medical Research
Laboratories
Wright-Patterson Air Force Base, Ohio
45433
Tel: (513) 255-5993

AREAS OF INTEREST: Bioastronautics; biological acoustics; neurophysiology; biodynamics; effects of vibration and impact; environmental physiology; bioinstrumentation; effects of acceleration; high-altitude physiology; altitude protective devices; aerospace waste management; aerospace water recovery systems; aerospace water standards; aerospace toxic hazards; bionics; veterinary medicine; engineering; psychology; design of control systems; human engineering; vision; visual perception; man-machine interaction; physical anthropology; motor skills; biomechanics; anthropometrics; environmental stress; simulation; training techniques; programmed learning.

HOLDINGS: Data compilations (zero-gravity records); reviews, journals, bibliographies, motion picture films, photos, slides.

PUBLICATIONS: Technical reports, bibliographies.

INFORMATION SERVICES: Makes referrals to the appropriate scientists or engineers; provides consulting or advisory services; prepares analyses or evaluations for those with a legitimate need-to-know; permits onsite use of collection; lends films and photographs.

Aerospace Research Laboratories

0072 Building 450
Wright-Patterson Air Force Base, Ohio
45433
Tel: (513) 255-4716

AREAS OF INTEREST: Research in the physical and engineering sciences, particularly in areas of hypersonic aerodynamics; fluid dynamic facilities; energy conversion processes; thermomechanics, including heat transfer and electric arc phenomena; metallurgy and ceramics, including fracture mechanics and electrical properties; chemistry, including organosilicon and metal chelate chemistry, combustion, and surface chemistry; plasma physics; solid state physics of II-VI compounds; general physics, including theoretical, atomic, nuclear structure, and optical physics; applied mathematics, including analysis, statistics, and numerical processes.

HOLDINGS: A library of about 19,000 volumes and 400 journals, including some complete runs.

PUBLICATIONS: An average of 150 journal articles per year and a similar number of ARL reports, both internal and contractor prepared; biannual reports on research; annual lists of publications; summary of coupling activities; other staff reports.

INFORMATION SERVICES: Articles and reports are available through the journals or DDC, as appropriate. Requests for specific information should be directed to the ARL Information Office at the above address.

Air Force Armament Laboratory

0073 Eglin Air Force Base, Fla. 32542
Tel: (904) 882-5341

AREAS OF INTEREST: Non-nuclear, chemical, and biological munitions and weapons, including explosives, warheads, bombs, guns, rockets, fuzes, ammunition, and dispensers; aerospace targetry, scorers, illuminating devices, pyrotechnic techniques, and missile technology; weapons delivery subsystems and related aerospace ground equipment; probe and munitions ballistic data, exterior ballistics, and terminal effects; target vulnerability, weapons effectiveness and lethality, and aircraft vulnerability and survivability; aerospace systems analysis; aircraft penetration, delivery, and escape tactics.

HOLDINGS: Library services are furnished by the Armament Development and Test Center, which has 150,000 technical reports covering non-nuclear chemical and biological munitions development and testing, electronic-countermeasures, missile tests, aircraft, and various other related Air Force and Department of Defense projects.

PUBLICATIONS: Technical reports (at least one for each development effort). All research and development efforts are reported on DD Form 1498, "Research and Technology Resume". (Note: Qualified requesters may obtain copies of technical reports or the DD Form 1498 information from the Defense Documentation Center (DDC), Alexandria, Va.).

INFORMATION SERVICES: Answers inquiries regarding munitions research and development; makes referrals.

Air Force Flight Dynamics Laboratory

0074 Wright-Patterson Air Force Base, Ohio
45433
Tel: (513) 255-4995

AREAS OF INTEREST: Aerospace flight control systems, equipment, and instrumentation; adverse structural dynamic and aerothermoelastic phenomena in aerospace vehicles; aerospace crew escape and recovery, regeneration of aerospace cabin atmosphere; control of effects of space radiation and meteoroids; reduction of effects of vibration, shock, and acceleration; cryogenic cooling; boundary layer stabilization and drag reduction techniques; shapes for hypersonic vehicles and air breathing scram-jet configurations; V/STOL aerodynamic development; flight vehicle orbit and trajectory analysis procedures; optimum vehicle configuration; structural design criteria.

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Answers technical inquiries; provides consulting services in the field of flight dynamics to Government agencies and their contractors.

Air Force Flight Test Center

0075 Edwards Air Force Base, Calif. 93523
Tel: (805) 277-1110 Ext. 73921

AREAS OF INTEREST: Aircraft testing; rocket research and testing; propellants; parachute testing; bioastronautics; optical and electronic missile and satellite tracking; infrared measurements of missile tracks; detection of reentry capsules; space vehicle recovery techniques; chemistry; mathematics.

HOLDINGS: The Center's Technical Library consists of one main library, one branch library (Rocket Propulsion Laboratory), two field libraries (Chem Lab and Aerospace Research Pilot School), and 78 office collections. Total collections are 35,000 volumes, 1,000 periodicals, and 65,000 technical documentary reports.

PUBLICATIONS: Technical documentary reports.

INFORMATION SERVICES: Provides information on current Center research, development, and testing activities on a need-to-know basis; makes interlibrary loans. The literature collections are primarily for Center personnel, but other Government agencies and their contractors may use the collections after obtaining proper clearance.

Air Force Office of Scientific Research (AFOSR)

LIBRARY

0076 Air Force Office of Scientific Research
1400 Wilson Blvd.
Arlington, Va. 22209
Tel: (202) 694-5751

AREAS OF INTEREST: Physical and life sciences; astronautics and aeronautics; mathematics; physics; astronomy; solid state science; information sciences.

HOLDINGS: 15,000 volumes, including bound periodicals.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite use of collection by qualified Department of Defense personnel, and by others by arrangement.

Air Force Rocket Propulsion Laboratory (AFRPL)

0077 Edwards, Calif. 93523
Tel: (714) 553-2982

AREAS OF INTEREST: Exploratory development and advanced development in chemical rocket propulsion, including rocket propulsion systems, rocket engine-motor components, rocket propellants, ground handling equipment, and rocket propulsion test facilities and equipment.

PUBLICATIONS: 400 technical reports per year. All secondary report distribution is accomplished by the Defense Documentation Center. A controlled unclassified Bibliography of AFRPL technical reports is published each year.

INFORMATION SERVICES: Answers inquiries within the scope of the AFRPL mission.

Armament Development and Test Center

TECHNICAL LIBRARY

0078 Library Services Branch
Armament Development and Test Center
Eglin Air Force Base, Fla. 32542
Tel: (904) 882-3212

AREAS OF INTEREST: Aircraft and missile testing; electronics testing and evaluation; tracking and instrumentation; bioastronautics.

HOLDINGS: Technical reports, books, periodicals.

INFORMATION SERVICES: The collections are accessible for use by the Department of Defense and its contractors on a need-to-know basis.

Arnold Engineering Development Center

DIRECTORATE OF FOREIGN TECHNOLOGY

0079 Arnold Engineering Development Center
Tullahoma, Tenn. 37389
Tel: (615) 455-2611 Ext. 7341

AREAS OF INTEREST: Foreign science and technology, including aerospace sciences.

HOLDINGS: Technical reports in the fields of aerothermodynamic test facilities, airbreathing and rocket propulsion test facilities, and space environmental chambers.

INFORMATION SERVICES: The report collection is accessible on a need-to-know basis to persons with proper security clearance.

Avionics Laboratory

0080 Scientific and Technical Information Office
Air Force Avionics Laboratory
Wright-Patterson Air Force Base, Ohio
45433
Tel: (513) 255-5804

AREAS OF INTEREST: Avionics communications; electromagnetic areas of transmission and reception (above 15 gigacycles); molecular electronics; plasma electronics; electromagnetic warfare; lasers; radar; vehicle environment; photographic materials and optronics; position and motion sensing devices; navigation and guidance systems and equipment; aerospace vehicle defense; reconnaissance and surveillance technology, including infrared and ultraviolet techniques; electromechanical technology.

PUBLICATIONS: *Technical reports; annual index of* Technical Reports Released

INFORMATION SERVICES: Answers inquiries from Air Force personnel and contractors and personnel of other Government agencies. Laboratory engineers are available for discussion of their projects; however, classified information will not be discussed unless a certified military need-to-know has been established.

Cambridge Research Laboratories

AEROSPACE INSTRUMENTATION LABORATORY

Balloon Instrumentation Branch

0081 Aerospace Instrumentation Laboratory
Air Force Cambridge Research Laboratories
L.G. Hanscom Field
Bedford, Mass. 01730
Tel: (617) 274-6100 Ext. 3006

AREAS OF INTEREST: Balloon materials, design, flight and ground support instrumentation, sensing elements, and operational techniques; superpressure and tethered balloons.

HOLDINGS: Reports, proceedings.

PUBLICATIONS: *Proceedings of AFCRL Scientific Balloon Symposia and Workshops* (annual).

INFORMATION SERVICES: Provides consulting services (by appointment) to agencies and individuals contemplating the use of balloons for scientific or test purposes.

Facilities include permanent balloon launching sites at Municipal Airport, Chico, Calif., and at Holloman Air Force Base, N. Mex.

Meteorological Equipment (CRE)

0082 Aerospace Instrumentation Laboratory
Air Force Cambridge Research Laboratories
L.G. Hanscom Field
Bedford, Mass. 01730
Tel: (617) 861-2875 or 861-3285

AREAS OF INTEREST: Meteorological equipment; vertical sounding; direct sensing; indirect probing; surface observing techniques.

HOLDINGS: 1,000 books; 50 periodical titles; 1,000 reports.

PUBLICATIONS: Specifications, reports.

INFORMATION SERVICES: Answers inquiries; provides general consulting services without charge.

ENVIRONMENTAL CONSULTATION SERVICE

0083 Air Force Cambridge Research Laboratories
L.G. Hanscom Field
Bedford, Mass. 01730
Tel: (617) 861-3633

AREAS OF INTEREST: Terrestrial, atmospheric, and space sciences; electromagnetic propagation and plasmas.

INFORMATION SERVICES: Provides consulting services. Consulting services are also provided by the Cambridge Research Laboratories West Coast Office, SAMSO (SMT/CRZ), Los Angeles AF Station, Calif. 90045.

EVALUATIONS DIVISION (CRTE)

0084 Air Force Cambridge Research Laboratories
L.G. Hanscom Field
Bedford, Mass. 01730
Tel: (617) 274-6100 Ext. 3633

AREAS OF INTEREST: Space physics; meteorology; upper atmosphere physics; solid state sciences; aerospace instrumentation; microwave physics; optical physics; terrestrial sciences; data sciences.

INFORMATION SERVICES: Answers inquiries, makes referrals, and provides technical advice and consultation services in fields related to research activities in microwave physics, data sciences, and solid state sciences. Consultation services in other technical areas are provided by the Laboratories' Environmental Consultation Service. Services are available to Government agencies and their contractors.

LIBRARY

0085 Air Force Cambridge Research Laboratories
L.G. Hanscom Field
Bedford, Mass. 01730
Tel: (617) 861-4895

AREAS OF INTEREST: Mathematics; physics; chemistry; astrophysics; electronics; geophysics.

HOLDINGS: 180,000 books; 100,000 bound volumes of journals; 140,000 reports; an extensive collection of Chinese science journals and monographs; a large collection of translations.

INFORMATION SERVICES: Provides library services to the staffs of the Cambridge Research Laboratories and of the Air Force Systems Command's Electronic Systems Division at Hanscom Field, and also to the Department of Defense, other Government agencies, and their contractors on a need-to-know basis.

SACRAMENTO PEAK OBSERVATORY

0086 Sunspot, N. Mex. 88349
Tel: (505) 473-6511 Ext. 2311

AREAS OF INTEREST: Solar research.

HOLDINGS: 1,000 books; 100 periodical titles; 1,000 reports.

INFORMATION SERVICES: Answers inquiries.

Frank J. Seiler Research Laboratory

0087 USAF Academy, Colo. 80840
Tel: (303) 472-3120

AREAS OF INTEREST: Chemistry, including electrochemistry and organometallic chemistry; applied mathematics, including adaptive and nonlinear control, system optimization, trajectory optimization, optimal control, mathematical programming and control theory, and computer sciences (for research and education); mechanics of fluids, including chemical kinetics, properties of ionizing shock wave propagation in a magnetic field, and the use of shock tubes in research and education.

PUBLICATIONS: Directories, bibliographies, reports.

INFORMATION SERVICES: Answers inquiries; provides advisory and consulting services. Services are available to Government agencies and authorized contractors and grantees.

Facilities include a Burroughs B5500 computer, a large multipurpose low density shock tube, a conventional well-equipped "wet" chemistry laboratory with six working spaces, and a specialized chemical instrument laboratory.

Office of Research Analyses

0088 Holloman Air Force Base, N. Mex. 88330
Tel: (505) 473-6511 Ext. 4464

AREAS OF INTEREST: Physics, mechanics, fluid dynamics, optics, and related fields; behavioral sciences, including management, economics, and political science; mathematical sciences, including operations research; engineering sciences, including electrical, mechanical, and aeronautical engineering; as all of these fields relate to requirements, technical validity, operational feasibility, and cost effectiveness of future Air Force weapons systems.

HOLDINGS: See entry for the Office's Technical Library, below.

PUBLICATIONS: Technical reports, directories, bibliographies.

INFORMATION SERVICES: Answers inquiries; provides consulting services to Government personnel and authorized contractors and grantees.

TECHNICAL LIBRARY

0089 Office of Research Analyses
Holloman Air Force Base, N. Mex. 88330
Tel: (505) 473-6511 Ext. 7320

AREAS OF INTEREST: Aerodynamics; mechanics; mathematics; orbital mechanics; flight systems; aerospace materials; propulsion; aerothermodynamics; planetary astronomy; inertial guidance systems; track test systems; business and management; mission analyses; systems analyses.

HOLDINGS: 19,500 books.

PUBLICATIONS: Acquisitions list (monthly); journal holdings list, current subscriptions list.

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans; provides reference and duplication services. Library services are limited to military, civilian, and contractor personnel at the Holloman Air Force Base.

Rome Air Development Center

LIBRARY SERVICES DIVISION

0090 Rome Air Development Center
Griffiss Air Force Base, N.Y. 13440
Tel: (315) 330-2213

AREAS OF INTEREST: Electronics; mathematics; missiles; astronautics; acoustics; psychology; nuclear physics; electromagnetic intelligence techniques; electromagnetic reliability and compatibility techniques; ground-based surveillance; ground communications; information displays and information processing.

HOLDINGS: The Library Services Division consists of three libraries specialized in science and technology, the Technical Library, Documents Library, and Branch Library, with holdings of 20,400 monographs, 550 periodical subscriptions, 125,608 documents (including both hard copy and microfiche), and 2,500 pamphlets.

PUBLICATIONS: Accessions lists.

INFORMATION SERVICES: Makes interlibrary loans of open literature. The collections are primarily for use by Center personnel, but limited reference services are provided to Government agencies, their contractors, and other libraries.

Space and Missile Test Center Headquarters

TECHNICAL LIBRARY, AFL 2827

0091 Headquarters Space and Missile Test Center
(CAL)
Vandenberg Air Force Base, Calif. 93437
Tel: (805) 866-5044 or 866-5631

AREAS OF INTEREST: Aerospace test and evaluation; basic electronics; radar; telemetry; photography; optics; data automation; electrical engineering; chemical engineering; missile safety; physics; instrumentation; oceanography.

HOLDINGS: 4,000 technical reports; 314 periodical titles; 5,643 bound technical reference books, handbooks, etc.

PUBLICATIONS: SAMTEC (previously AFWTR) Technical Reports.

INFORMATION SERVICES: Provides library services to Department of Defense agencies and their contractors only.

Air University

Air Force Institute of Technology

LIBRARY

0092 Air Force Institute of Technology Library
(AFIT-L)
Building 640, Area "B"
Wright-Patterson Air Force Base, Ohio
45433
Tel: (513) 257-1110 Ext. 53005

AREAS OF INTEREST: Aeronautical engineering, including aeronautics, aerodynamics, and aircraft design; electrical engineering, including circuits, communication systems, feedback systems, control theory, and systems reliability; mathematics, including statistics, calculus, computer programming, numerical analysis, and stochastic processes; mechanical engineering, including kinematics, thermodynamics, propulsion systems, heat transfer, gas dynamics, qualitative analysis, and physical and organic chemistry; mechanics, including geology, aerospace structures, aeroelasticity, space and lunar sciences, and metallurgy; physics, including astronomy, optics, quantum mechanics, solid state, nuclear, plasma, and bioastronautics; systems management, including accounting, economics, law, operations research, and management information systems; humanities, including report writing, English, communications, literature, and languages; civil engineering, including military construction, pavement engineering, air conditioning, soils, and corrosion control; logistics, including management, economic and cost analysis, statistics, procurement and production, data management, quality control, reliability, and business law; weapon systems, including systems engineering, program management, acquisition, and support systems.

HOLDINGS: 115,000 books; 1,230 periodical titles; 70,000 scientific and technical reports; 130 bibliographies; 7,100 theses.

PUBLICATIONS: *AFIT Journal Holdings* (annual); *AFIT Guide to Library Research Resources* (annual); *New Books in AFIT Library* (biweekly).

INFORMATION SERVICES: Answers inquiries; provides reference and literature-searching services; makes interlibrary loans. Services are primarily for the Institute students and faculty, but others are served when time and security regulations permit.

SCHOOL OF ENGINEERING

0093 Air Force Institute of Technology
(AFIT/EN)
Wright-Patterson Air Force Base, Ohio
45433
Tel: (513) 255-4372

AREAS OF INTEREST: Aerospace engineering; electrical engineering; mathematics; mechanical engineering; mechanics; physics; nuclear engineering; systems management and analysis.

PUBLICATIONS: Reports and theses.

INFORMATION SERVICES: Answers inquiries; provides advisory services. Services are primarily for the Air Force and other Department of Defense agencies.

Air University Library, USAF

0094 Maxwell Air Force Base, Ala. 36112
Tel: (205) 293-2888

AREAS OF INTEREST: Aeronautics; aerospace management; astronautics; communications; education; military art and science; space technology.

HOLDINGS: 250,000 books; 56,000 bound periodicals; 500,000 documents (military and technical); 470,000 maps.

PUBLICATIONS: *Air University Library Index to Military Periodicals* (quarterly); *Air University Abstracts of Research Reports* (annual); *Selected Acquisitions* (monthly); many special bibliographies.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite use of collection by qualified researchers who obtain permission in advance from the Director.

Arctic, Desert, Tropic Information Center

0095 Aerospace Studies Institute (ASADT)
Air University
Maxwell Air Force Base, Ala. 36112
Tel: (205) 293-5373 or 293-5597

AREAS OF INTEREST: Geographical areas of environmental extremes and effects of extremes on equipment and personnel; geography, ecology, and applied biology; applied anthropology and ethnology; cross cultural contacts and human survival.

HOLDINGS: Books, research reports, abstracts, manuscripts, and geographical charts; ethnographic information on the U.S.S.R., Southeast Asia, South America, Africa, and the Middle East; file of current research projects on nontemperate areas; films on survival and cross cultural contact; 35mm colored slide collection on natural history and ethnology of American and Southeast Asian tropics.

PUBLICATIONS: *Information Bulletin* (irregular) containing unclassified aircrew survival and rescue information; *Ethnic Briefs* containing basic, useful information on establishing friendly working rapport with peoples of different cultures; bibliographies, technical reports, state-of-the-art reviews.

INFORMATION SERVICES: Answers inquiries; provides consulting services; provides technical advisory services for motion picture production; evaluates and analyzes data; lends materials; permits onsite use of collection.

Civil Air Patrol

National Headquarters

0096 Civil Air Patrol
Aerospace Education and Training Deputate
Maxwell Air Force Base, Ala. 36112
Tel: (205) 293-7916

The Civil Air Patrol is the civilian auxiliary of the U.S. Air Force.

AREAS OF INTEREST: Aerospace education and training, including aviation; space technology;

aerodynamics; aircraft engines; airports; airways; aviation electronics; air traffic control; aircraft navigation; aviation weather; aerospace manufacturing; air transportation; space research; social, economic, political, and cultural impact of air and space vehicles.

PUBLICATIONS: Textbooklets, student workbooks, instructor guides, 35mm slides, recordings, pamphlets, programmed learning exercises.

INFORMATION SERVICES: Provides professional consultation services in the field of aerospace education and training.

Director of Civil Engineering

0097 Headquarters, U.S. Air Force (AFOCEK)
Washington, D.C. 20332
Tel: (202) 696-7030

AREAS OF INTEREST: Civil engineering; military engineering; real estate; military construction; environmental pollution and natural resources; water supply, treatment, and use at military installations; heat and power generation; soil mechanics; structural dynamics; design and construction of facilities; corrosion control; seismic forces; pavements; air conditioning; liquid fuels; maintenance of facilities; entomology; agronomy.

HOLDINGS: Design and maintenance manuals.

PUBLICATIONS: Design, maintenance, and operating manuals; drawings and specifications.

INFORMATION SERVICES: Answers brief inquiries.

Military Airlift Command

Aerospace Audio Visual Services

AIR FORCE CENTRAL STILL PHOTOGRAPHIC DEPOSITORY

0098 1221 South Fern St.
Arlington, Va. 22202
Tel: (703) 697-5817

AREAS OF INTEREST: Air Force still photographs having historical/documentary interest or a continuing use.

HOLDINGS: 296,000 still photo negatives.

INFORMATION SERVICES: Provides information on availability of Air Force still photographs on any subject at the Depository. Prints are available free to Federal Government agencies carrying on functions related to Air Force objectives, to nonprofit organizations carrying on functions in the interest of public health and welfare, and to the general public when used to further understanding of the Air Force. Prints are available to others for a fee, subject to security restrictions.

Facilities include a modern laboratory capable of producing black and white and color photography and an activity in the Pentagon which provides portrait studio photography photo-journalistic support for the Air Force in the Washington, D.C., area.

USAF CENTRAL AUDIO VISUAL DEPOSITORY (AVVUTD)

0099 Air Force Audio Visual Center
Norton Air Force Base, Calif. 92409
Tel: (714) 382-2513 or 382-2514

AREAS OF INTEREST: Air Force motion pictures having historical interest or continuing use.

HOLDINGS: Over 83 million feet of motion picture film.

PUBLICATIONS: List of completed film clips on subjects of Air Force interest.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides advisory, consulting, and reference services. Information is provided on availability of Air Force motion picture footage on any subject, including footage which has been transferred to the National Archives (inquiries on availability of specific film may be sent directly to the Depository; requests for footage should be sent to: Secretary of the Air Force (SAF-OI), Washington, D.C. 20330). Film is provided free to Federal Government agencies and to others on a cost basis, subject to security restrictions.

USAF CENTRAL AUDIO VISUAL LIBRARY

0100 Air Force Audio Visual Center
Norton Air Force Base, Calif. 92409
Tel: (714) 382-2493

AREAS OF INTEREST: Air Force training, information, education, and orientation films.

HOLDINGS: All motion pictures produced by and for the Air Force (300,000 motion picture prints in 5,000 subject areas).

PUBLICATIONS: Film catalog, *Air Force Manual 95-2* (Vol. I describes all motion picture films; Vol. II contains Air Force films cleared for public and television use); special listings, abstracts, indexes.

INFORMATION SERVICES: Answers inquiries; provides consulting services concerning selection and use of audio-visual aids; lends films, subject to security restrictions.

Office of Aerospace Research

Air Force Office of Scientific Research (AFOSR)

0101 1400 Wilson Blvd. (SRGC)
Arlington, Va. 22209
Tel: (202) 694-4875

AREAS OF INTEREST: Grants and contracts for phenomena-oriented research throughout those sciences related to the needs of the operational Air Force, including chemistry, mathematics, electronics, mechanics, energy conversion, general physics, nuclear physics, solid state physics, astronomy-astrophysics, and the behavioral, biological, and information sciences. Research efforts are directed toward scientific problems of the researcher's own choosing, and involve the search for new knowledge and the expansion of scientific principles rather than their utilization for equipment development.

PUBLICATIONS: *Air Force Scientific Research Bibliography* lists and abstracts publications and journal articles produced as a result of AFOSR research support. Compiled by the Library of Congress, this series ended with Vol. VIII, covering the year 1965 and published in 1969. Vol. VII, covering the years 1963-64, was still in press in mid-1970. The rest of the series includes Vol. I, covering 1950-56 (1961); Vol. II, 1957-58 (1964); Vol. III, 1959 (1965); Vol. IV, 1960 (1966); Vol. V, 1961 (1967); and Vol. VI, 1962 (1968). These are on sale from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. *Air Force Research Resumes, 1966* (OAR 67-7) lists and abstracts research efforts in the AFOSR program (on sale from the Clearinghouse, U.S. Dept. of Commerce, Springfield, Va. 22151). Detailed information on AFOSR's organization, role, programs, and accomplishments is contained in *AFOSR Research* (available from the Clearinghouse as AD 659 366). Three brochures are available on request to AFOSR (SRGC): *AFOSR Programs*, describing general program objectives; *AFOSR Grants* and *AFOSR Contracts*, describing procedures for application and administration of grants and contracts, respectively.

INFORMATION SERVICES: AFOSR Documents Branch (SRGO-1) answers inquiries on AFOSR technical reports and their availability through the DDC-Clearinghouse systems. AFOSR staff scientists consult with and advise the scientific community on Air Force scientific interests and problems. AFOSR Scientific and Technical Information Officer answers inquiries from the news media and the public on AFOSR-supported research.

Office of the Secretary

Office of Information

COMMUNITY RELATIONS DIVISION

0102 Office of Information
Office of the Secretary of the Air Force
Hq USAF (SAFOIC)
The Pentagon
Washington, D.C. 20330
Tel: (202) 697-1128

AREAS OF INTEREST: Mission, equipment, and operations of the U.S. Air Force; impact of aircraft on the community, including sonic booms and civil matters.

HOLDINGS: Reports.

PUBLICATIONS: Fact sheets on selected USAF activities and equipment.

INFORMATION SERVICES: Answers inquiries.

Tactical Air Command

Tactical Air Reconnaissance Center Technical Library

0103 Technical Library
Hq., USAF Tactical Air Reconnaissance
Center
Shaw Air Force Base, S.C. 29152
Tel: (803) 775-1111 Ext. 2689

AREAS OF INTEREST: Tactical air reconnaissance requirements, concepts, doctrine, tactics, and procedures; airborne and ground tactical air reconnaissance equipment; radar; infrared sensor systems; photography; electronic reconnaissance equipment; intelligence; electronic warfare systems; aerospace equipment; mathematics; communications tactics and equipment; data processing.

HOLDINGS: A collection of documents, largely classified, from Government and industry sources and technical books.

PUBLICATIONS: Classified accessions list, bibliographies, and abstracts.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides advisory, literature-searching, abstracting, indexing, and reproduction services. Services involving classified material are limited to users with a certified need-to-know.

Wright-Patterson Air Force Base

Technical Library

0104 USAF Logistics Command (2750th AB Wing)
Building 12, Area B
Wright-Patterson Air Force Base, Ohio 45433
Tel: (513) 255-2438

AREAS OF INTEREST: Aerodynamics; aeronautics; aerospace sciences; astronautics; business and related subjects; chemistry, including physical and theoretical, analytical, organic, and inorganic; crystallography; engineering, including chemical, civil, electronic, mechanical, and automatic control; mathematics; medical sciences; metallurgy; physics, including mechanics of solids, fluids and gases, optics, heat, sound, electricity, and electronics.

HOLDINGS: 111,000 books and bound periodicals; 1,700 journal subscriptions; NACA and NASA reports; Great Britain Aeronautical Research Council Reports and Memoranda; Great Britain Aeronautical Research Council Current Papers; College of Aeronautics, Cranfield, England, Notes; AGARD Reports.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference by Government contractors, industry representatives, and students.

AIR FORCE MACHINABILITY DATA CENTER

see Metcut Research Associates, Inc.

AIR FOUNDATION

0105 690 Union Commerce Bldg.
Cleveland, Ohio 44114
Tel: (216) 781-4535

AREAS OF INTEREST: Promotion of all phases of aviation and space, with emphasis on education.

HOLDINGS: Information on aviation and space subjects; data on air shows.

PUBLICATIONS: *Quick Facts About Air Foundation.*

INFORMATION SERVICES: Answers inquiries.

The Air Foundation sponsors national air races, national aircraft shows, and national model plane and space shows. It administers the Bendix and Thompson trophies for flight achievement of U.S. military jet airships.

AIR LINE PILOTS ASSOCIATION

0106 55th St. and Cicero Ave.
Chicago, Ill. 60638
Tel: (312) 767-1400

AREAS OF INTEREST: Air safety and related engineering; accident investigation and reports.

PUBLICATIONS: *Air Line Pilot* (monthly); *Tech Talk* (monthly); *Shop Talk* (monthly); *Information Bulletin* (weekly); press releases.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; furnishes evaluations of new model airplanes, runway analyses, accident reports, and similar documents, if available; provides consulting services to members only.

AIR MOVING AND CONDITIONING ASSOCIATION, INC.

0107 30 West University Dr.
Arlington Heights, Ill. 60004
Tel: (312) 394-0150

AREAS OF INTEREST: Manufacture and use of ventilating fans, steam and hot water unit heaters, direct gas-fired make-up air units, and louvers, dampers, and shutters.

HOLDINGS: Small collection of books.

PUBLICATIONS: Standards and specifications, directories.

INFORMATION SERVICES: Answers inquiries; provides copies of technical standards. Services are provided free to educational institutions, Government agencies, etc., and for nominal charge to industrial users.

AIR POLLUTION CONTROL ASSOCIATION

0108 4400 Fifth Ave.
Pittsburgh, Pa. 15213
Tel: (412) 621-1100

AREAS OF INTEREST: Air pollution; apparatus, equipment, and operating procedures for economically preventing air pollution; recommended practices for controlling air pollution from solvents, aerosols, dust, fumes, gases, and particles; inhalation; crop damage; legislation to control air pollution.

HOLDINGS: Books, journals, Government reports, industrial literature, patents, data, professional papers, technical articles.

PUBLICATIONS: *Journal of the Air Pollution Control Association* (monthly); *APCA Abstracts* (monthly summary of current literature); reprints, proceedings, manuals of recommended practices.

INFORMATION SERVICES: Answers inquiries; provides reference services; permits onsite use of literature collection; distributes literature pertaining to the problems of providing cleaner air.

AIR RESOURCES LABORATORIES

see Commerce, Department of. Environmental Science Services Administration. Research Laboratories

AIRBORNE INSTRUMENTS LABORATORY LIBRARY

0109 Walt Whitman Rd.
Melville, N.Y. 11746
Tel: (516) 595-4400

AREAS OF INTEREST: Electronics, including remote control and other subjects; instrumentation.

HOLDINGS: 15,000 books; 30,000 reports; 10,000 periodicals and bound volumes; 20,000 microfiche; bibliographies, reviews, maps, charts, graphs, tables.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides literature-searching and bibliographic services; permits onsite reference; lends materials.

AIRCRAFT OWNERS AND PILOTS ASSOCIATION

0110 4650 East-West Highway
Bethesda, Md. 20014
Tel: (301) 654-0050

AREAS OF INTEREST: Aviation; pilot training; airports; aircraft; safety.

HOLDINGS: Films, photos, instructor guides, pilot training manuals.

PUBLICATIONS: Reports; standards and specifications; flight course material.

INFORMATION SERVICES: Makes referrals; provides consulting and reference services; lends films to pilots and aviation industry; distributes pilot training manuals and instructor guides to flight instructors.

AIRWAYS ENGINEERING SOCIETY

0111 Shoreham Bldg., Room 444
806 15th St. NW.
Washington, D.C. 20005
Tel: (202) 628-2368

AREAS OF INTEREST: Air traffic control communications and electronic navigation systems; U.S. airways; avionics.

HOLDINGS: Journals, data.

PUBLICATIONS: *Informer* (monthly).

INFORMATION SERVICES: Answers brief inquiries.

AKRON PUBLIC LIBRARY

Science and Technology Division

0112 Akron Public Library
55 South Main St.
Akron, Ohio 44308
Tel: (216) 762-7621

AREAS OF INTEREST: Rubber; plastics; aeronautics; general coverage of other science and technology subjects.

HOLDINGS: 706,513 books, of which 64,000 cover science and technology; 339 periodicals in science and technology; a special collection on lighter-than-air craft; Government publications, motion pictures, maps, charts, graphs, tables, reports, standards and specifications, abstracts, indexes, newsletters, preprints, reprints, publication lists, bibliographies, pamphlets, clippings.

PUBLICATIONS: Publication lists, bibliographies.

INFORMATION SERVICES: Answers inquiries; provides duplication and bibliographic services; permits onsite reference; lends most book materials; makes interlibrary loans.

ALABAMA ACADEMY OF SCIENCE

0113 Auburn University Library
Auburn, Ala. 36830
Tel: (205) 826-4500

AREAS OF INTEREST: Biological sciences; chemistry; geology; forestry, including geography and conservation; physics; mathematics; industry and economics; science education; engineering; anthropology; medical sciences; social sciences.

PUBLICATIONS: *Journal of the Alabama Academy of Science* (quarterly); newsletter (3 issues per year).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; sponsors science fairs; provides lectures under a grant from the National Science Foundation.

ALABAMA AGRICULTURAL EXPERIMENT STATION

see Auburn University

ALABAMA GEOLOGICAL SURVEY

0114 P.O. Drawer O
University of Alabama
University, Ala. 35486
Tel: (205) 759-5721

AREAS OF INTEREST: Water, mineral, and petroleum resources in Alabama; geology, including economic geology and environmental geology; paleontology; stratigraphy; geophysics.

HOLDINGS: 650,000 mineral and fossil specimens; 7 million feet of drill cores, hand specimens, etc.; books, periodicals, publication lists, reports, tapes, films, photos, abstracts, reprints, maps, charts, graphs, tables, and complete sets of U.S. Geological Survey and State survey publications.

PUBLICATIONS: Circulars, bulletins, maps, reports.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting and duplication services; permits onsite reference.

ALABAMA SOIL AND WATER CONSERVATION COMMITTEE

0115 State Office Bldg., Room 810-12
Montgomery, Ala. 36104
Tel: (205) 269-7330

AREAS OF INTEREST: Soil and water conservation in Alabama; municipal and industrial water supply; recreational needs, including fish and wildlife; maximum utilization of all natural resources; watershed projects; legislation.

PUBLICATIONS: *Handbook for Soil and Water Conservation District Supervisors*; *History of Soil and Water Conservation in Alabama*; *Newsletter of Alabama* (monthly); *The Operation of Soil and Water Conservation Districts in Alabama* (brochure).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides free conservation literature for school children; provides visual aid programs for church, civic, and school groups.

ALABAMA WATER IMPROVEMENT COMMISSION

0116 State Office Bldg.
Montgomery, Ala. 36104
Tel: (205) 265-2341 Ext. 2217

AREAS OF INTEREST: Water pollution control in Alabama.

HOLDINGS: Small collection of reference materials.

PUBLICATIONS: *Alabama Waters* (irregular); biennial report.

INFORMATION SERVICES: Answers inquiries; permits onsite use of collection.

ALASKA AGRICULTURAL EXPERIMENT STATION

see University of Alaska

ALASKA DEPARTMENT OF HEALTH AND WELFARE

Division of Public Health

Branch of Environmental Health

0117 Division of Public Health
Alaska Department of Health and Welfare
Pouch H
Juneau, Alaska 99801

Location:

Foss Bldg.
113 West 3d St.
Juneau, Alaska
Tel: (907) 586-5371

AREAS OF INTEREST: Environmental health control; public health; air pollution control; general sanitation; sanitary engineering; sanitary land fill operation; water pollution control; the regulation of water supply, waste disposal, food processing, preparation, and service, solid waste disposal, heating, lighting, ventilation, and general housekeeping within public and semipublic water and sewage works facilities, food processing plants, retail food establishments, institutions such as schools, hospitals, and children's homes, public housing, recreational areas and tourist accommodations, occupational environments or work places, and within similar establishments where faulty environment may create a condition potentially causative of disease.

HOLDINGS: Unevaluated data; photos of sanitary facilities in the State.

INFORMATION SERVICES: Answers inquiries within the limitations of time and personnel; provides technical consulting services.

ALASKA DEPARTMENT OF HIGHWAYS

State Materials Laboratory

0118 Alaska Department of Highways
Box F, University of Alaska
College, Alaska 99701
Tel: (907) 479-7234

AREAS OF INTEREST: Testing and evaluation of highway construction materials; construction problems unique to the arctic environment, including permanently frozen ground.

HOLDINGS: Construction materials samples, books, maps, charts, reports, graphs, tables, standards and specifications, periodicals, abstracts, reprints, pamphlets, publication lists, data.

PUBLICATIONS: Project records, graphs, tables, reports, standards, slides, data.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

ALLEGHENY LUDLUM STEEL CORP.

Research Center Library

0119 Allegheny Ludlum Steel Corp.
Alabama and Pacific Ave.
Brackenridge, Pa. 15014
Tel: (412) 226-2000

AREAS OF INTEREST: Metallurgy; iron and steel making; melting; mechanical working; hot rolling; cold rolling; extrusion; powder metallurgy; heat treating; metallography; welding; joining and assembling; transformation and resulting structures; physical properties and their measurements; mechanical properties and tests; corrosion; inspection and control; instrumentation; laboratory and control equipment.

HOLDINGS: 2,600 books; 2,100 bound volumes of journals; 1,900 reports; 7,500 U.S. patents; 2,700 foreign patents; 8,350 translations; films, photos, data.

PUBLICATIONS: Library bulletins.

INFORMATION SERVICES: Lends material, subject to approval by the Director of Research.

ALLIED CHEMICAL CORP.

Technical Information Service

0120 Allied Chemical Corp.
P.O. Box 309
Morristown, N.J. 07960
Tel: (201) 538-8000

AREAS OF INTEREST: Inorganic, organic, polymer, and agricultural chemistry.

HOLDINGS: 8,000 books; 15,000 journals; 15,000 reports; patents.

PUBLICATIONS: Accessions list, bibliographies.

INFORMATION SERVICES: Services are primarily for company employees, but others are permitted limited access to the collections upon special arrangement.

ALLIED RESEARCH ASSOCIATES, INC.

0121 Virginia Rd.
Concord, Mass. 01742
Tel: (617) 369-9000

AREAS OF INTEREST: Geophysics; aerospace; atmospheric physics research, satellite meteorology and earth resources; data systems; life sciences; biological effects of nonionizing radiation; electronics and electrical engineering.

HOLDINGS: 1,000 books; 70 journals and periodicals; 10,000 reports; 1,500 specifications and standards.

PUBLICATIONS: Brochures, technical reports, annual report.

INFORMATION SERVICES: Answers brief inquiries free; makes interlibrary loans. Extensive inquiries in the areas of satellite meteorology and biological effects of nonionizing radiation are handled on a contractual basis.

ALLIS-CHALMERS MANUFACTURING CO.

Research Division Library

0122 Allis-Chalmers Manufacturing Co.
P.O. Box 512
Milwaukee, Wis. 53201

Location:
70th and Greenfield Ave.
Milwaukee, Wis.
Tel: (414) 475-2102

AREAS OF INTEREST: Engineering; physics; chemistry; aerospace.

HOLDINGS: 12,000 books; 1,750 reports; 6,000 periodicals; 575 abstracts and indexes; 86 vertical file drawers of pamphlets; 275 reprints; data.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; permits onsite reference.

ALLOY CASTING INSTITUTE

0123 300 Madison Ave.
New York, N.Y. 10017
Tel: (212) 682-8414

AREAS OF INTEREST: Metallurgical research in high alloy castings (ferrous castings containing alloying elements in excess of 8 percent); chemical, physical, and mechanical properties of high alloy castings (iron-base, nickel-base, and iron-chromium-nickel types) under various thermal, corrosive, and abrasive conditions; foundry practice and techniques in castability, weldability, and machinability.

HOLDINGS: Books, journals, reports, patents, films, photos.

PUBLICATIONS: *Alloy Casting Bulletin* (irregular); *8 Plus* (quarterly); *A.C.I. Data Sheets*; *Standard Designations* (irregular); technical papers, reprints. A technical publications list is available.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

ALLOY DATA CENTER

see Commerce, Department of. National Bureau of Standards. Metallurgy Division

ALUMINUM ASSOCIATION

0124 750 Third Ave.
New York, N.Y. 10017
Tel: (212) 972-1800

AREAS OF INTEREST: Aluminum technology; alloys; standards; tensile strength and tolerances; extrusions and forgings; nomenclature of aluminum mill products.

HOLDINGS: Books, reports, periodicals, standards and specifications, reviews, abstracts, indexes, newsletters, preprints, reprints, publication lists, bibliographies, pamphlets, press releases, clippings.

PUBLICATIONS: *World Aluminum Abstracts* (monthly); *Aluminum in Manufactured Housing* (seasonally); *Aluminum Highway News* (irregular); *Railroad Report* (quarterly); *Building Code News* (quarterly); *Aluminum Standards and Data* (annual); *Aluminum Statistical Review* (annual). In addition to these serial or recurring titles, the Association has published numerous guides, manuals, standards, specifications, reference books, booklets, and pamphlets relating to aluminum. Publication lists and a directory of members are also available.

INFORMATION SERVICES: Answers inquiries; makes referrals.

ALUMINUM SIDING ASSOCIATION

0125 2217 Tribune Tower
435 North Michigan Ave.
Chicago, Ill. 60611
Tel: (312) 644-0828

AREAS OF INTEREST: Aluminum siding, including installation, hail damage, grounding, flamespread tests, repainting, repair and replacement, care and maintenance, and insulation values.

HOLDINGS: Books, reports, data.

PUBLICATIONS: Reports, standards and specifications, leaflets.

INFORMATION SERVICES: Answers inquiries.

ALUMINUM SMELTERS RESEARCH INSTITUTE

0126 20 North Wacker Dr.
Chicago, Ill. 60606
Tel: (312) 726-1475

AREAS OF INTEREST: Aluminum and aluminum metallurgy, including alloys, alloying, castings, and casting alloys; air and water pollution control.

PUBLICATIONS: *Central Library Bulletin* (monthly).

INFORMATION SERVICES: Answers inquiries as time permits.

AMALGAMATED FLYING SAUCER CLUBS OF AMERICA, INC.

0127 2004 North Hoover St.
Los Angeles, Calif. 90027
Tel: (213) 662-4404

AREAS OF INTEREST: Flying saucers, including extraterrestrial contact and communication, life and conditions on other planets, electromagnetic propulsion, and interplanetary travel; nonfictional advanced concepts of science, philosophy, economics, and Government.

PUBLICATIONS: *Flying Saucers International* (quarterly); books, post cards, brochure, photos.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

AMATEUR ASTRONOMERS ASSOCIATION

0128 212 West 79th St.
New York, N.Y. 10024
Tel: (212) 874-9064

AREAS OF INTEREST: Astronomy; radio astronomy; optics; astrophotography; variable stars; meteors; meteor showers; comets; occultations; auroras; planets; sun; moon; astronomical data; galaxies; sunspots; eclipses; telescope mirror making; science and technology; history of science.

PUBLICATIONS: *The Eyepiece* (monthly); *Skylines* (periodical news bulletin); *Asterisks* (annual); brochure.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides lectures by astronomers and other specialists; provides evening classes in such fields as basic astronomy, recent advances in astronomy, and telescope mirror making; provides instruction in astronomical observation; sponsors field trips; permits onsite reference; conducts evenings of stargazing for the public at such sites as Jones Beach, Long Island, N.Y., and children's camps.

AMAZONIA FOUNDATION, INC.

0129 P.O. Box 651
New York, N.Y. 10023

AREAS OF INTEREST: Innovative research into special ultraviolet effect of particular interest to aeronautics and flight safety systems; multispectral aerial reconnaissance and land exploration; history and geography of the Andes and Upper Amazon areas; related topics in the humanities and physical sciences.

INFORMATION SERVICES: Because of limited staff and resources, provides only brief answers to specific technical inquiries that are within the organization's scope of interest. Broad, general inquiries cannot be answered.

AMERICAN APPAREL MANUFACTURERS ASSOCIATION, INC.

0130 2000 K St. NW., Suite 654
Washington, D.C. 20006
Tel: (202) 337-7177

AREAS OF INTEREST: Apparel manufacturing for consumers, military, and space personnel; textiles; textile machinery, and other equipment, supplies, and services furnished apparel manufacturers.

HOLDINGS: Technical publications, reports, periodicals, tapes, films, pamphlets, newsletters, clippings, publication lists, industry economic data.

PUBLICATIONS: *Apparel Management Letter* (monthly); *Apparel Economic Summary* (monthly); *Apparel Import Digest* (monthly); *AAMA Newsletter* (monthly); *Monthly Market Trend Report*; *AAMA Financial and Operating Ratio Report* (annual, available to survey participants only); *AAMA Plant Wage and Personnel Policy Survey* (annual); *AAMA Salesmen Compensation Survey* (annual); *Focus* (annual, an economic profile of the apparel industry); *AAMA Directory* (annual); annual paper by Technical Advisory Committee; *Washington Report*; *Special Report*; speeches, miscellaneous reports, technical papers.

INFORMATION SERVICES: Answers inquiries; makes referrals; lends tapes, films, and books to nonmembers on a fee basis.

AMERICAN ASSOCIATION FOR AUTOMOTIVE MEDICINE

0131 c/o Dr. J. L. Weygandt, Secretary
716 Monroe St.
Sheboygan Falls, Wis. 53085
Tel: (414) 467-4798

AREAS OF INTEREST: Safety in ground transportation, including care and transportation of injured persons, safety precautions available to the driver and passenger, and automotive and highway design and construction; effects of drugs on driving performance; effects of carbon monoxide.

PUBLICATIONS: *AAAM Quarterly* (bulletin); proceedings of annual meetings.

INFORMATION SERVICES: Answers inquiries; suggests speakers for interested groups.

AMERICAN ASSOCIATION OF COST ENGINEERS

0132 P.O. Box 5199
University of Alabama
University, Ala. 35486
Tel: (205) 759-4345

AREAS OF INTEREST: Cost engineering.

HOLDINGS: Periodicals, reprints.

PUBLICATIONS: *The AACE Bulletin* (quarterly); *Cost Engineers' Notebook* (quarterly); *Transactions of AACE* (annual); *Bibliography of Investment and Operating Costs for Chemical and Petroleum Plants* (annual, with the U.S. Bureau of Mines).

INFORMATION SERVICES: Answers inquiries; makes referrals.

AMERICAN ASSOCIATION OF MOTOR VEHICLE ADMINISTRATORS

0133 1828 L St. NW., Suite 500
Washington, D.C. 20036
Tel: (202) 296-1955

AREAS OF INTEREST: Driver licensing; uniform traffic laws and enforcement; traffic safety; engineering and vehicle inspection; reciprocity legislation to facilitate interstate travel and commerce; uniform procedure for registration and titling of vehicles; vehicle equipment approval.

HOLDINGS: Periodicals.

PUBLICATIONS: *DL Newsletter* (bimonthly); *AAMVA Bulletin* (monthly); *Registration Register* (quarterly); pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; approves automotive equipment to assure compliance with applicable standards.

AMERICAN ASSOCIATION OF MUSEUMS

0134 2233 Wisconsin Ave. NW.
Washington, D.C. 20007
Tel: (202) 338-5300

AREAS OF INTEREST: Science museums; planetariums; zoos; aquariums; botanical gardens; arboretums.

HOLDINGS: Data on location and capabilities of museums in the United States and Canada.

PUBLICATIONS: *Museums Directory of the United States and Canada*; *Museum News* (10 issues a year); *America's Museums: The Belmont Report*.

INFORMATION SERVICES: Provides reference and consulting services; makes referrals.

AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS (AASHO)

0135 341 National Press Bldg.
1346 F St. NW.
Washington, D.C. 20004
Tel: (202) 628-2438

AREAS OF INTEREST: Highway administration and engineering.

PUBLICATIONS: *American Highways* (quarterly); directories, reports, specifications.

INFORMATION SERVICES: Answers inquiries.

AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS

0136 AATCC Technical Center
P.O. Box 12215
Research Triangle Park, N.C. 27709
Tel: (919) 549-8141

AREAS OF INTEREST: Test methods for colorfastness to light, laundering, perspiration, and drycleaning; flammability; water repellency; static; fabrics; finishes.

PUBLICATIONS: *Textile Chemist and Colorist* (biweekly); *Technical Manual* (annual); *Products* (annual, containing listings of American resin-bonded pigment colors and American-made dyes); bibliography.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Committee RA58 on Stream Sanitation Technology

0137 AATCC National Headquarters
P.O. Box 12215
Research Triangle Park, N.C. 27709
Tel: (919) 549-8141

AREAS OF INTEREST: Water conservation and pollution abatement in the textile industry; biochemical oxygen demand (BOD) of textile chemicals.

PUBLICATIONS: Symposia proceedings; industrial waste guides for the textile industry; water and waste analyses; special articles in the Association's journal, *Textile Chemist and Colorist*.

INFORMATION SERVICES: Answers technical inquiries; makes referrals to other organizations or specialists; cooperates with other organizations in programs and publications of mutual interest.

AMERICAN ASSOCIATION OF VARIABLE STAR OBSERVERS (AAVSO)

0138 187 Concord Ave.
Cambridge, Mass. 02138
Tel: (617) 354-0484

AREAS OF INTEREST: Variable stars; solar observations; lunar occultations.

HOLDINGS: Over 1,000 blueprint identification charts for variable stars; 1,000 books; 25 periodical titles; 500 reports.

PUBLICATIONS: *Solar Bulletin*; abstracts of papers presented at meetings; reports on highly technical results of observations received.

INFORMATION SERVICES: Answers inquiries; provides consulting services. A beginner's kit containing a "-Manual for Observing Variable Stars" and several mimeographed sheets is available for a fee.

AMERICAN ASTRONAUTICAL SOCIETY

0139 1629 K St. NW.
Washington, D.C. 20006
Tel: (202) 296-7397

AREAS OF INTEREST: Astronautics; utilization of space; spacecraft; space flight; space environment; guidance; control; astrodynamics; bioastronautics; navigation; propulsion; orbits; trajectories; solar physics; radiation; planetary environment; flight mechanics; space medicine.

HOLDINGS: Books, journals, data.

PUBLICATIONS: *Journal of the Astronautical Sciences* (bimonthly); *Advances in the Astronautical Sciences* (proceedings issued in about four volumes a year); *Newsletter* (bimonthly).

INFORMATION SERVICES: Answers inquiries; makes referrals; makes materials available for purchase.

AMERICAN AUTOMATIC CONTROL COUNCIL

0140 Polytechnic Institute of Brooklyn
333 Jay St.
Brooklyn, N.Y. 11201
Tel: (212) 643-2111

AREAS OF INTEREST: Automatic control and instrumentation as related to all fields of science and technology.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries about the activities of the International Federation of Automatic Control; conducts annual Joint Automatic Control Conference.

AMERICAN AUTOMOBILE ASSOCIATION

0141 1712 G St. NW.
Washington, D.C. 20006
Tel: (202) 638-4000 (Library Ext. 494)

AREAS OF INTEREST: Travel; driver education; traffic engineering and safety; pedestrian protection and safety; hotels and motels; automobiles (statistics, history, buying, and selling); highway and city planning; motor vehicle codes and regulations; road maps; vacation planning; insurance.

HOLDINGS: 12,000 books; 3,000 maps; 500 periodicals; records of automobile races sanctioned by the Association.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides duplication and limited literature-searching services; makes interlibrary loans of some material; permits onsite reference.

AMERICAN BIO-SYNTHETICS CORP.

0142 710 West National Ave.
Milwaukee, Wis. 53204
Tel: (414) 384-7017

AREAS OF INTEREST: Agriculture, including the development of animal health products, feed additives, etc.; general and polymer chemistry, including the development of new polymers; resins, including the development of new uses or applications; design and development of special automated laboratory pilot plant and processing equipment; biochemistry, including the preparations of hormones, enzymes, and other extracts and special materials from various plant, insect, bird, fish, and animal sources; amino acids, polypeptides, and related protein research and nutrition studies; environmental testing of foods, materials, and industrial equipment and component parts; high vacuum freeze drying (research and other vacuum processing); foods development, including high convenience and instant foods, food ingredients and additives, and flavor and nutritional improvements.

HOLDINGS: *Chemical Abstracts*, technical books, files of current Government tests and specifications for various materials.

INFORMATION SERVICES: Makes interlibrary loans.

Facilities include analytical and research laboratories and pilot plants.

AMERICAN BOAT AND YACHT COUNCIL, INC.

0143 15 East 26th St.
New York, N.Y. 10010
Tel: (212) 532-9688

AREAS OF INTEREST: All recreational boats, including boat trailers (safety, design, construction, equipment, maintenance).

HOLDINGS: Books, reports, project records, standards and specifications, reviews, periodicals, newsletters, preprints, reprints, bibliographies, pamphlets, graphs, tables, data.

PUBLICATIONS: *Safety Standards and Recommended Practices* (annual); reviews, newsletters, press releases.

INFORMATION SERVICES: Answers inquiries; makes referrals.

AMERICAN CAN CO.

Research and Development Department

Technical Information Center

0144 Research and Development Department
American Can Co.
433 North Northwest Highway
Barrington, Ill. 60010
Tel: (312) 381-1900 Ext. 337

AREAS OF INTEREST: Containers and packaging; food canning and processing; microbiology; metals; plastics; organic coatings; materials engineering; mechanical engineering; machinery engineering and development.

HOLDINGS: 3,000 books; 300 periodical titles; 1,000 reports.

INFORMATION SERVICES: Makes interlibrary loans.

AMERICAN CANVAS INSTITUTE

0145 P.O. Box 12287
Memphis, Tenn. 38112

Location:

1918 North Parkway
Memphis, Tenn.
Tel: (901) 276-2783

AREAS OF INTEREST: Cotton canvas awnings and other outdoor canvas products.

HOLDINGS: Pamphlets, tapes, clippings.

PUBLICATIONS: Photos, slides, posters, press releases.

INFORMATION SERVICES: Answers inquiries; makes referrals. Services are primarily for Institute members, but some exceptions are made on individual basis.

AMERICAN CERAMIC SOCIETY, INC.

0146 4055 North High St.
Columbus, Ohio 43214
Tel: (614) 268-8645

AREAS OF INTEREST: Ceramics; glass; refractories; procelain enamels; cermets; composites;

whitewares; structural clay products; nuclear and electronic ceramics; analytical, crystal, and colloid chemistry; solid state physics; instrumentation for high temperature reactions.

HOLDINGS: 1,100 books; 1,200 bound volumes; an extensive file of reports, brochures, booklets, and catalogs; 270 periodicals on current subscription. The Society is a cooperating library in the *ACCESS, Key to Source Literature of the Chemical Sciences* published by Chemical Abstracts.

PUBLICATIONS: *Journal of the American Ceramic Society--Ceramic Abstracts* (monthly); *The American Ceramic Society Bulletin* (monthly); *Phase Diagrams for Ceramists*; *Large Scale Phase Diagrams*; *Ceramic-Metal Systems and Enamel Bibliography and Abstracts*; *Symposium on Nucleation and Crystallization in Glasses and Metals*; *Ceramic Glossary*; *Engineering Properties of Selected Ceramic Materials*; *Alumina as a Ceramic Material*; *Ceramic Nuclear Fuels*; *Electronic Ceramics*.

INFORMATION SERVICES: Answers brief inquiries; makes limited referrals; provides duplication services of noncopyrighted material for a fee; permits onsite reference.

AMERICAN CHEMICAL SOCIETY

0147 1155 16th St. NW.
Washington, D.C. 20006
Tel: (202) 737-3337 Ext. 279

AREAS OF INTEREST: Chemistry and chemical technology.

HOLDINGS: Books, journals, and reports in Publications Library.

PUBLICATIONS: *Journal of the American Chemical Society* (biweekly); *Journal of Organic Chemistry* (monthly); *Journal of Physical Chemistry* (monthly); *Biochemistry* (monthly); *Journal of Medicinal Chemistry* (bimonthly); *Inorganic Chemistry* (monthly); *Journal of Chemical Documentation* (quarterly); *Journal of Chemical and Engineering Data* (quarterly); *Chemical Reviews* (bimonthly); *Journal of Chemical Education* (monthly); *Chemical and Engineering News* (weekly); *Analytical Chemistry* (monthly); *Journal of Agricultural and Food Chemistry* (bimonthly); *Industrial and Engineering Chemistry* (monthly); *I&EC Process Design and Development* (quarterly); *I&EC Fundamentals* (quarterly); *I&EC Product Research and Development* (quarterly); *Chemistry* (monthly); *Environmental Science and Technology* (monthly); *Accounts of Chemical Research* (monthly); *Macromolecules* (bimonthly); *Chemical Technology* (monthly, starting January 1971); *Advances in Chemistry Series* (irregular).

INFORMATION SERVICES: Provides information through the Library; makes interlibrary loans; permits onsite reference.

Chemical Abstracts Service Division

0148 The Ohio State University
Columbus, Ohio 43210
Tel: (614) 422-5022
(614) 422-7552 (Library)

AREAS OF INTEREST: All aspects of chemistry and chemical engineering.

HOLDINGS: The Chemical Abstracts Service Division library holds approximately 12,000 chemical and chemical engineering journals from 106 countries and patents issued by 26 countries, all regularly monitored in the preparation of *Chemical Abstracts*.

PUBLICATIONS: *Chemical Abstracts* (weekly journal covering all chemistry and chemical engineering; includes titles, bibliographic citations, abstracts, and related indexes); *Chemical Abstracts* on Microfilm (issues on 16mm microfilm from 1907 to most recently microfilmed abstracts from *Chemical Abstracts* plus updates 8-10 times per year); *Basic Journal Abstracts* (biweekly computer-readable service covering 35 selected chemical journals; includes titles, bibliographic citations, and abstracts); *CA Condensates* (weekly computer-readable service; includes all titles, bibliographic citations, and Keyword Index phrases on magnetic tape from corresponding issue of *Chemical Abstracts*); *Chemical Titles* (biweekly journal and computer-readable service; includes titles and bibliographic citations from some 600 most active chemical journals); *Chemical-Biological Activities* (biweekly journal and computer-readable service covering literature reporting interactions of organic compounds with biological systems, related metabolism, and in-vitro chemical reactions; includes titles, bibliographic citations, digests, and related indexes); *Polymer Science and Technology* (weekly journal and computer-readable service covering polymer chemistry; includes titles, bibliographic citations, digests, and related indexes); *Chemical Abstracts Service Source Index, 1969 Edition* (journal containing bibliographic descriptions for the source literature of the chemical sciences with key to library holdings); *Chemical Abstracts Service Source Index Quarterly* (journal that updates information in *Chemical Abstracts Service Source In-*

dex); *Ring Index, 1960* and supplements; *SOCMA Handbook of Commercial Organic Chemical Names*; *Steroid Conjugates*. A list of publications and services is available from the Marketing Department of Chemical Abstracts Service.

INFORMATION SERVICES: All printed, periodical services are available by subscription. Microfilm and magnetic tape services are available as lease-subscriptions. Photocopies of original Russian papers held in the library are provided for a fee. The library is not open to the public, but it will answer inquiries or refer inquiries elsewhere.

Division of Rubber Chemistry Library and Information Service

0149 University of Akron
302 East Buchtel Ave.
Akron, Ohio 44304
Tel: (216) 762-2441

AREAS OF INTEREST: Chemistry and technology of natural and synthetic rubbers; history and development of rubber industry.

HOLDINGS: The Division of Rubber Chemistry Library and Information Service is a unit within the Science and Technology Division of the University of Akron Library and shares the University Library's collections.

PUBLICATIONS: Bibliographies (a list is available).

INFORMATION SERVICES: Answers inquiries; provides reference, literature-searching, and duplication services; permits onsite reference.

AMERICAN COKE AND COAL CHEMICALS INSTITUTE

0150 1010 16th St. NW.
Washington, D.C. 20036
Tel: (202) 296-5932

AREAS OF INTEREST: Coke; coal chemicals; coke-oven gas; tar; ammonia; naphthalene; benzol; xylol; "beehive" ovens; brick-chimney ovens; fuel; producer gas; water gas.

HOLDINGS: Reports.

PUBLICATIONS: *The Story of Coke and Coal Chemicals*; pamphlets, proceedings.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

AMERICAN CONCRETE INSTITUTE

0151 22400 West Seven Mile Rd.
Detroit, Mich. 48219
Tel: (313) 532-2600

AREAS OF INTEREST: Design, construction, and maintenance of concrete structures; manufacture and use of concrete products; building code requirements for concrete; standards.

HOLDINGS: Books, periodicals.

PUBLICATIONS: *Journal of the American Concrete Institute* (monthly), with 55-year index (1905-1959) and subsequent indexes; bibliographies, standards, recommendations, books. A price list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals.

AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

0152 1014 Broadway
Cincinnati, Ohio 45202
Tel: (513) 684-3557

AREAS OF INTEREST: Industrial hygiene and occupational health, with emphasis on Threshold Limit Values for air contaminants, industrial ventilation, air sampling instruments, health services in small industries, and uniform industrial hygiene codes or regulations.

PUBLICATIONS: *Air Pollution Control Process Flow Sheets*; *Air Pollution Reference Library*; *Air Sampling Instruments Manual*; *Analytical Methods Manual*; *Bibliography of Radiation Protection Organizations*; *Guide to Records for Health Services in Small Industries*; *Guide to Uniform Industrial Hygiene Codes or Regulations*; *Standard Reports of Occupational Health Activities Among State and Local Health Agencies*; *Threshold Limit Values*; *Guide to Records and Reports for Evaluating Environmental Conditions in Industry*; *Transactions of Annual Meetings*. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals.

AMERICAN CONGRESS ON SURVEYING AND MAPPING

0153 430 Woodward Bldg.
733 15th St. NW.

Washington, D.C. 20005
Tel: (202) 347-0029

AREAS OF INTEREST: The broad field of surveying and mapping, including such disciplines as geodesy, cartography, field and photogrammetric surveying, and land and cadastral surveying.

HOLDINGS: Small reference collection of books, periodicals, and reports.

PUBLICATIONS: *Surveying and Mapping* (quarterly journal); bulletin, technical monographs, bibliographies.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

AMERICAN COUNCIL OF INDEPENDENT LABORATORIES, INC.

0154 1026 17th St. NW.
Washington, D.C. 20036
Tel: (202) 659-3766

AREAS OF INTEREST: Most areas of science and technology, including: abrasives; acoustic materials; adhesives; agricultural testing; air conditioning; aircraft components; air pollution; alcohols; alloys; antibiotics; appliances; asphalt and asphaltic concrete; automotive components; bacteriology; boilers; building materials; industrial carbon; cement and concrete; ceramics; chemistry; clay products; coal and coke; coatings; colloids; color measurements; corrosion; cosmetics; detergents; dielectrics; disinfectants; drugs; electrical testing; electrochemistry; electronics; electrophoresis; electroplating; engineering; environmental testing; explosives; fertilizers; food additives; food technology; fuels; gases; geology; glass; graphite; gypsum products; heat transfer; hormones; hydraulics; instrumentation; insulation; isotopes; lubricants; mechanical testing; metallography; metallurgy; metals; microscopy; minerals; narcotics; nondestructive testing; nuclear materials; nutrition; oil well research; ores and concentrates; paints; paper; patents; paving materials; perfumes; pesticides; petrography; petroleum products; pharmaceuticals; photometry; plastics; poisons; radioisotopes; refractories; sampling; sand; sanitation; sewage; soaps; soils engineering; solvents; sonic testing; spectroscopy; steel; taste testing; textiles; tobacco; toxicology; ultrasonic testing; vitamins; waste analysis and treatment; water analysis and treatment; waterproofing; welding; wood products.

PUBLICATIONS: *A.C.I.L. Bulletin* (quarterly newsletter).

INFORMATION SERVICES: Makes referrals to member laboratories which, for a fee, provide various services, including sampling, inspection, testing, chemical analysis, research and development, quality control, and consulting. A *Directory* listing the laboratories and describing their services is distributed free.

AMERICAN CRAFTS COUNCIL

Research and Education Department

0155 American Crafts Council
29 West 53d St.
New York, N.Y. 10019
Tel: (212) 246-6840

AREAS OF INTEREST: All aspects of craftsmanship and the use of craft products; craft schools, shops, and suppliers; craft exhibitions.

HOLDINGS: Portfolio files on American craftsmen containing 18,000 black and white photos, 33,000 color slides, and biographies; 1,000 books.

PUBLICATIONS: *Craft Horizons* (magazine); *Craft Courses Directory*; *Craft Shops Directory*; *Outlook* (newsletter); bibliographies, membership brochure.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; provides slides and filmstrips through rental and sale; disseminates lists of craft schools, shops, and suppliers, and membership brochure, pamphlets, catalogs, etc.; permits onsite use of collection.

AMERICAN CYSTOSCOPE MAKERS, INC.

0156 8 Pelham Parkway
Pelham Manor, N.Y. 10803
Tel: (914) 738-4800

AREAS OF INTEREST: Electromedical instruments; fiber optic flexible endoscopic instruments; telescopes for medical and industrial purposes; borescopes; optical instruments; dipped latex products; image and light transmitting fiber optics; special electro-optical devices; instrument history.

HOLDINGS: 500 devices (medical equipment); 15 films; 400 photos; 500 reports; 600 journals; slides, pamphlets.

INFORMATION SERVICES: Answers brief inquiries; provides bibliographic services; permits onsite reference. Services are available to the medical profession and customers.

AMERICAN DATA PROCESSING, INC.

0157 Book Bldg., 4th Floor
Detroit, Mich. 48224
Tel: (313) 962-8040

AREAS OF INTEREST: Data processing; computers; management science; lasers; data communication; total systems; forms and systems; information retrieval.

HOLDINGS: 1,600 books; 1,300 periodicals; 1,300 technical reports; 1,200 abstracts and indexes; 600 photos; 100 bibliographies; 2,000 pamphlets; 500 clippings; microfilm, newsletters, press releases, unevaluated data.

PUBLICATIONS: *Data Processing Yearbook*; *Data Processing Systems Encyclopedia* (monthly); *Computer Applications Service* (monthly); *Data Processing for Education* (monthly); *Total Systems* (monthly); *Information Retrieval* (monthly); *Forms and Systems* (monthly); *Data Communications* (monthly); *Laser Letter* (semimonthly); *Management Information Systems Index*; various books. A catalog of publications is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and literature-searching services for fee; permits onsite use of collection.

AMERICAN ELECTRONIC LABORATORIES, INC.

0158 P.O. Box 552
Lansdale, Pa. 19446

Location:

Richardson Rd.
Colmar, Pa.
Tel: (215) 822-2929

AREAS OF INTEREST: General communications equipment; medical electronics; electronic testing equipment; antennas; microwave components; solid state devices; microwave laboratory instrumentation; equipment and systems for electronic warfare; electronic industrial process controls.

PUBLICATIONS: Annual report, data sheets, specifications.

INFORMATION SERVICES: Answers inquiries; permits onsite reference.

AMERICAN ENKA CORP.

Business and Technical Library

0159 American Enka Corp.
Enka, N.C. 28728
Tel: (704) 667-6936

AREAS OF INTEREST: Textiles; chemistry; physics.

HOLDINGS: 7,000 books and bound periodicals; 30,000 reports; 240 periodical subscriptions; 2 file cabinets of pamphlets, booklets, leaflets, and brochures; abstracts, indexes, microfilm.

PUBLICATIONS: Annual report, brochures.

INFORMATION SERVICES: Answers inquiries; provides reference, bibliographic, and literature-searching services; permits onsite reference. Prior arrangements are necessary for most services.

AMERICAN FEDERATION OF INFORMATION PROCESSING SOCIETIES (AFIPS)

0160 210 Summit Ave.
Montvale, N.J. 07645
Tel: (201) 391-9810

AREAS OF INTEREST: All aspects of information processing related to the development and application of computer and data processing techniques, including all new developments and applications of computers, associated equipment, and "software" (programming).

HOLDINGS: Published proceedings of all Spring and Fall Joint Computer Conferences held since 1951; booklets on the information processing field, computer careers, and historical development of the computer; Personnel Survey of the Information Processing Field (1968).

PUBLICATIONS: Periodic reports and information booklets; proceedings of the semiannual Joint Computer Conferences.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides background and related material on the information processing field to editors of mass media and to the business and scientific press; provides general information to educational groups, Government groups, professional societies, and related nonprofit organizations.

AMERICAN FISHERIES SOCIETY

0161 1040 Washington Bldg.
15th St. and New York Ave. NW.
Washington, D.C. 20005
Tel: (202) 347-9717

AREAS OF INTEREST: Fishery science, including aquatic biology; fish diseases; estuarine biology; oceanography; economics; fish culture; limnology; water pollution; pesticides; herbicides; conservation in North America.

PUBLICATIONS: *Transactions of the American Fisheries Society* (quarterly) and its indexes; English language editions of the Russian scientific journals, *Journal of Ichthyology* and *Hydrobiological Journal*; *AFS Newsletter* (bimonthly); two brochures, *Fisheries as a Profession* and *North American Fisheries Policy*; reports. A publications price list is available.

INFORMATION SERVICES: Answers inquiries and makes referrals without charge.

AMERICAN FLIGHT STRIPS ASSOCIATION

0162 19 East 72d St. (2A)
New York, N.Y. 10021
Tel: (212) 744-5505

AREAS OF INTEREST: Airfields.

PUBLICATIONS: Books, newsletters, bibliographies, pamphlets.

INFORMATION SERVICES: Makes referrals.

AMERICAN FOREST INSTITUTE

0163 1835 K St. NW.
Washington, D.C. 20006
Tel: (202) 296-1591

AREAS OF INTEREST: Forest management; conservation, including fire prevention, insects, and diseases; watersheds; forest industry lands; tree farms; logging; sawmills and pulp mills and their products; organic chemicals produced by wood distillation and hydrolysis plants; plywood and veneer mills.

HOLDINGS: Booklets, slides, photos, maps, charts, forestry statistics, national tree farm records, reports.

PUBLICATIONS: *Bibliography of Teaching Aids*; news journal, proceedings, reports, state-of-the-art reviews.

INFORMATION SERVICES: Provides reference and consulting services; makes referrals; makes evaluation of school textbooks; lends films and slides to educational institutions, industry, authors, and publishers; permits onsite reference to forestry statistics and national tree farm records at the discretion of the Institute.

AMERICAN FOUNDATION FOR THE BLIND

0164 15 West 16th St.
New York, N.Y. 10011
Tel: (212) 924-0420

AREAS OF INTEREST: Health, education, rehabilitation, and welfare of the blind and deaf-blind; sensory prostheses; sensory communications; visual prostheses; electronic and other devices and aids for the severely visually impaired and the deaf-blind; mobility devices; testing of devices; simulation of living systems; sociological aspects of blindness.

HOLDINGS: Books, journals, and statistical and demographic data on visual impairment.

PUBLICATIONS: *Research Bulletin* (quarterly); state-of-the-art reports, bibliographies, conference proceedings.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and literature-searching services; maintains a Scan-Column Index and the IRIS Document Center for sensory research.

AMERICAN FOUNDRYMEN'S SOCIETY

0165 Golf and Wolf Rds.
Des Plaines, Ill. 60016
Tel: (312) 824-0181

AREAS OF INTEREST: Foundry technology; cast metals and casting processes; all ferrous and nonferrous alloys; cupola, electric, gas, and other melting; gating; core practices; formulation, mixing, molding, and sand control; plaster, ceramic, permanent mold, and die casting procedures; safety, hygiene, and environment pollution; education and research; engineering.

HOLDINGS: Books, films, specifications, periodicals, reports, abstracts; a comprehensive library on cast metals technology.

PUBLICATIONS: *Modern Casting* (monthly); *Cast Metals Research Journal* (quarterly); *Transactions* of AFS (annual); abstracts, indexes, bibliographies, pamphlets, leaflets, and special case bound books on foundry topics. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides duplication services for fee.

AMERICAN GAS ASSOCIATION LIBRARY

0166 1515 Wilson Blvd.
Arlington, Va. 22209

AREAS OF INTEREST: Fuel gas industry and technology and related aspects, including appliance research, sales, and promotion; industrial, commercial, and residential air conditioning and heating; incineration; liquefied natural gas; pipelines; energy conversion; engines and turbines; codes and ordinances; accident prevention and safety.

HOLDINGS: 7,000 books; 400 current journals; 200 file drawers of pamphlets and clippings; proceedings, indexes.

PUBLICATIONS: *Publications List* (annual); *A.G.A. Monthly*; bibliographies, instruction pamphlets, manuals, data handbooks, standards and specifications.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides bibliographic and reference services; provides duplication services for fee; distributes films, slides, and flip charts at published rates; lends materials; permits onsite reference.

AMERICAN GEAR MANUFACTURERS ASSOCIATION

0167 1330 Massachusetts Ave. NW.
Washington, D.C. 20005
Tel: (202) 783-3621

AREAS OF INTEREST: Gears, including generating equipment, lubrication, standards, measuring methods, metallurgy and materials, and nomenclature.

HOLDINGS: Reports, data, standards.

PUBLICATIONS: *News Digest* (monthly); journals, reports, proceedings, state-of-the-art reviews, standards and specifications, data handbooks, indexes, bibliographies, directory.

INFORMATION SERVICES: Sells standards.

AMERICAN GEOGRAPHICAL SOCIETY

0168 Broadway at 156th St.
New York, N.Y. 10032
Tel: (212) 234-8100

AREAS OF INTEREST: All aspects of geography, including economic, physical, cultural, historical, political, educational, and medical; the related fields of geology, glaciology, climatology, biogeography, population statistics, anthropology, agriculture, treaties, boundaries, sociology, history, travel, and exploration.

HOLDINGS: A library with 168,000 volumes of books and periodicals, 32,000 pamphlets, 45,000 photographs, and clippings. The Research Catalogue is classified by region and subject, and the cards for the 1923-61 period have been published in book form by G. K. Hall Co. The Map Department has 318,787 maps and 5,000 atlases. The collection also contains works on cartographers and on the history and care of maps, as well as cartographic and geographic reference material.

PUBLICATIONS: *Geographical Review* (quarterly); *Atlas of Diseases*; *Focus* (monthly analysis of a specified area); *Current Geographical Publications* (10 times a year), which lists additions to the Society's Research Catalogue; *Serial Atlas of the Marine Environment* (Folios 1-19); *Soviet Geography: Review and Translation* (monthly, except July and August); *Ubique* (newsletter, 3 times a year); *Antarctic Map Folio Series* (Folios 1-9).

INFORMATION SERVICES: Provides reference, duplication, and limited literature-searching services; makes interlibrary loans.

AMERICAN GEOLOGICAL INSTITUTE

0169 1444 N St. NW.
Washington, D.C. 20005
Tel: (202) 234-2758

AREAS OF INTEREST: Earth sciences; geological education, including curriculum improvement; manpower in the geological sciences.

PUBLICATIONS: *Geotimes* (monthly except June and August); *International Geology Review* (monthly); *Geology: Science and Profession* (1967); *The Sphere of the Geological Scientist* (1965); *Investigating the Earth* (1967, available only from Houghton Mifflin Co.); *Teacher's Guide*, parts 1 and 2 (1967, available only from Houghton Mifflin Co.); *Doklady of the Academy of Sciences, USSR, Earth Science Section*, a translation from *Doklady Akademii Nauk SSR* (6 issues per year); *Geochemistry International*, selected translations from *Geokhimiya* and other journals (6 issues per year); *Paleontological Journal*, a cover-to-cover translation of *Paleontologicheskiy Zhurnal*; *Directory of Geoscience Departments* (1968); *Glossary of Geology and Related Sciences* (1960); reports on manpower in the geological sciences; lecture notes on post-graduate short courses conducted by the Institute. The Institute also cooperates with the Geological Society of America in the publication of the monthly abstract journal *Bibliography and Index of Geology Exclusive of North America*. A complete list of publications is available.

INFORMATION SERVICES: Answers written inquiries about its programs and publications; makes referrals.

AMERICAN GEOPHYSICAL UNION

0170 2100 Pennsylvania Ave. NW.
Washington, D.C. 20037
Tel: (202) 293-1144

The American Geophysical Union serves as the U.S. National element of the International Union of Geodesy and Geophysics.

AREAS OF INTEREST: Theoretical and applied sciences dealing with the earth, including its atmosphere and its environment in space; all aspects of geodesy, including gravity; seismology; meteorology; geomagnetism and paleomagnetism; aeronomy; oceanography; volcanology; geochemistry; petrology; hydrology; tectonophysics; planetology; solar-terrestrial relationships; geophysics careers and education.

PUBLICATIONS: *Journal of Geophysical Research* (3 times a month: 1st of the month issue relates to space geophysics, 10th of the month issue relates to solid earth geophysics and planetary sciences, and 20th of the month issue relates to oceans and the atmosphere); *Transactions* (*EOS*) (monthly); *Radio Science* (monthly, published with the aid of ESSA); *Reviews of Geophysics* (quarterly); *Water Resources Research* (bimonthly); Geophysical Monograph Series; Antarctic Research Series; English translations of 8 Russian scientific journals. A price list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; participates in exchange programs of scientific literature from foreign sources, including iron-curtain countries; sponsors regional, national, and international conferences.

AMERICAN HARDWARE MANUFACTURERS ASSOCIATION

0171 2130 Keith Bldg.
Cleveland, Ohio 44115
Tel: (216) 241-7333

AREAS OF INTEREST: Hardware products; antitrust developments; State taxation of interstate commerce; foreign trade; tariff.

HOLDINGS: Books, cards, newsletters.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference by request.

AMERICAN HELICOPTER SOCIETY, INC.

0172 30 East 42d St.
New York, N.Y. 10017
Tel: (212) 697-5168

AREAS OF INTEREST: Helicopters; VTOL/STOL aircraft.

HOLDINGS: Journals, reports.

PUBLICATIONS: *Journal of the American Helicopter Society* (quarterly); *Verti-Flite* (monthly); conference proceedings, state-of-the-art reviews.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services.

AMERICAN HOT DIP GALVANIZERS ASSOCIATION, INC.

0173 1000 Vermont Ave. NW.
Washington, D.C. 20005
Tel: (202) 628-4634

AREAS OF INTEREST: Hot dip galvanizing; galvanized steel; corrosion prevention.

HOLDINGS: Small collection of books.

PUBLICATIONS: *Marketing Newsletter* (bimonthly); reports, standards and specifications, membership directory, brochures. A publications list is available.

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes referrals.

AMERICAN INDUSTRIAL HYGIENE ASSOCIATION

0174 25711 Southfield Rd.
Southfield, Mich. 48075
Tel: (313) 836-0058

AREAS OF INTEREST: Industrial hygiene; air pollution; aerosols; analytical chemistry; biochemical assays; contaminant control ventilation; engineering; hygienic guides; ergonomics; noise; radiation; respiratory protective equipment; toxicology.

HOLDINGS: Books, journals.

PUBLICATIONS: *American Industrial Hygiene Association Journal* (6 issues a year); *Hygienic Guides Series*; *Respiratory Protective Devices Manual*; *Air Pollution Manual Part 2-Control*; *Analytical Guides*; *Community Air Quality Guides*; *Industrial Noise Manual*; *Heating and Cooling for Man in Industry*.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services.

AMERICAN INSTITUTE FOR DESIGN AND DRAFTING

0175 P.O. Box 2955
Tulsa, Okla. 74101

AREAS OF INTEREST: Modern design and drafting, including integration with computer control, microfilming, photodrafting, and diazo or electrostatic reproduction; certification of design and drafting schools.

HOLDINGS: Books, reports.

PUBLICATIONS: News journal, reports, proceedings, standards and specifications.

INFORMATION SERVICES: Answers inquiries; conducts meetings and seminars for advancing the technology of design-drafting; assists educational institutes in updating design-drafting curricula to meet industries' requirements.

The Institute charters local councils consisting of managers and professional personnel and also charters student chapters.

AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS

Technical Information Service

0176 American Institute of Aeronautics and
Astronautics
750 Third Ave.
New York, N.Y. 10017
Tel: (212) 867-8300

AREAS OF INTEREST: Aeronautics and astronautics, including aerodynamic deceleration systems; air breathing propulsion; aircraft design; aircraft operations; astrodynamics; astronomy; astrophysics; atmospheric environment; atmospheric flight mechanics; communications; electric power systems; electric propulsion; electronics; entry vehicles; flight testing; fluid dynamics; ground systems and equipment; ground testing and simulation; guidance and control; instrumentation; launch vehicles and missiles; law; life sciences and systems; liquid rockets; management; marine systems; materials; mathematics; meteorology; nuclear propulsion; physics; plasmadynamics; propellants and combustion; reliability and maintainability; solid rockets; space and atmospheric physics; spacecraft; structural dynamics; structures; thermophysics; underwater propulsion.

HOLDINGS: 10,000 books; 2,000 pamphlets; 60,000 reports; 1,500 current serial titles in various languages and translations; extensive microfiche collection of published literature.

PUBLICATIONS: *International Aerospace Abstracts* (semimonthly); *Cumulated Index to International Aerospace Abstracts* (semiannual and annual).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides duplication and microfiche services for fee; permits onsite reference.

AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES

Bio-Instrumentation Advisory Council (BIAC)

0177 American Institute of Biological Sciences
3900 Wisconsin Ave. NW.
Washington, D.C. 20016
Tel: (202) 244-5581

AREAS OF INTEREST: Instrumentation for research and technological applications in the life sciences.

HOLDINGS: Books, reports, reviews, periodicals, abstracts, indexes, preprints, reprints, newsletters, publication lists, bibliographies, pamphlets, catalogs, photos, data.

PUBLICATIONS: Section in *BioScience*, the monthly journal of AIBS; "Information Modules" on theory, techniques, technology, and instrumentation, published as needed. A bulletin listing free publications is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

AMERICAN INSTITUTE OF CROP ECOLOGY

0178 809 Dale Dr.
Silver Spring, Md. 20910
Tel: (301) 589-4185

AREAS OF INTEREST: Bioclimatology and agroclimatology; comparison between analogous climatological areas in the United States and other countries and between analogous areas outside the United States; physical and plant geography; crop ecology; crop-climate relationships.

HOLDINGS: Meteorological records and biological data from various parts of the world, including phenological records of pure line crop varieties, clones, inbred lines, and hybrids, as well as their principal diseases and pests under similar and diverse environmental conditions; maps, charts, project records, tables, technical reports, books, monographs, journals, abstracts.

PUBLICATIONS: Technical reports and surveys of climatology and crop ecology of various countries. A list of publications and a descriptive brochure are available on request.

INFORMATION SERVICES: Answers brief inquiries free; provides consulting and translating services; performs research at cost.

AMERICAN INSTITUTE OF MAINTENANCE

0179 P.O. Box 2068
Glendale, Calif. 91209

Location:
710 West Wilson Ave.
Glendale, Calif.
Tel: (213) 244-1176

AREAS OF INTEREST: Buildings and grounds maintenance.

HOLDINGS: Small collection of books.

PUBLICATIONS: *National Custodian Magazine* and *Cleaning Management Bulletin* (both bimonthly); books.

INFORMATION SERVICES: Answers inquiries.

AMERICAN INSTITUTE OF MINING, METALLURGICAL, AND PETROLEUM ENGINEERS, INC.

0180 United Engineering Center
345 East 47th St.
New York, N.Y. 10017
Tel: (212) 752-6800

AREAS OF INTEREST: Mining, metallurgical, and petroleum engineering; coal; industrial minerals; minerals beneficiation; extractive metallurgy; physical metallurgy; geology; engineering economics and education in the fields of mining, metallurgy, and petroleum.

HOLDINGS: The Institute uses the collections of the Engineering Societies Library, located at the same address and described elsewhere in this directory.

PUBLICATIONS: *Journal of Metals* (monthly); *Mining Engineering* (monthly); *Journal of Petroleum Technology* (monthly); *Society of Petroleum Engineers Journal* (quarterly); newsletter, bound volumes of transactions, proceedings, books, reprints.

INFORMATION SERVICES: Answers brief inquiries from serious researchers when resources of the Engineering Societies Library have been exhausted or are inappropriate; sponsors conferences and symposia.

AMERICAN INSTITUTE OF PHYSICS

0181 335 East 45th St.
New York, N.Y. 10017
Tel: (212) 685-1940

AREAS OF INTEREST: Physics, astronomy, and related sciences; publishing of scientific journals in these fields; development of a national information system for physics; public information services to make available reliable communications on physics and its progress; physics education; manpower studies; history and philosophy of physics.

HOLDINGS: An archival set of journals; a computer-readable file of information on physics papers published since 1963 in over 30 journals, including most AIP journals and a significant sampling of foreign journals, available for limited title, author, and citation searches; a model collection of titles included in "Check List of Books and Periodicals for an Undergraduate Physics Library," a literature guide published by AIP in August 1966; Depository of Physics Photographs; Physics and Astronomy Section of the National Register of Scientific and Technical Personnel. The Niels Bohr Library of the Center for History and Philosophy of Physics, located in the AIP headquarters building, has source materials for research on the history, philosophy, and sociology of physics, including not only published works, but a substantial collection of original correspondence, manuscripts, notebooks, diaries, autobiographies, and unpublished documents. These materials are supplemented by tape recordings and transcripts, motion picture films, photographs, information on source materials elsewhere, and unique data on the development of physics and the physics community in the 20th century.

PUBLICATIONS: *Physics Today* (monthly journal of general interest); 15 journals published for member societies; 4 bulletin-programs; 13 translated Soviet journals; conference proceedings, books, handbooks, career booklets, glossaries, newsletters, brochures, directories, listings of undergraduate and graduate study opportunities.

INFORMATION SERVICES: Answers inquiries regarding AIP programs; provides booklets and other literature on order or request. The Niels Bohr Library provides limited interlibrary loan and duplication services. Requests for onsite access to the Library's collections should be directed to the Center for History and Philosophy of Physics.

Information Center for International Physics Activities

0182 American Institute of Physics
335 East 45th St.
New York, N.Y. 10017
Tel: (212) 685-1940

AREAS OF INTEREST: International physics activities, including international physics organizations and conferences.

HOLDINGS: Listings of the following: name, address, principal functions, fields of interest, and principal personnel of international physics organizations; name, address, fields of professional interest, languages, travels, and professional associations of individual U.S. and foreign physicists; and title, auspices, dates, and place of conferences, together with the correspondent's name and address. In addition, the Center has access to the literature collections of the American Institute of Physics and a complete collection of Institute publications.

PUBLICATIONS: *Information Booklet on Physics Organizations Abroad* (annual).

INFORMATION SERVICES: Answers inquiries.

AMERICAN INSTITUTE OF PLANNERS

0183 917 15th St. NW., Room 800
Washington, D.C. 20005
Tel: (202) 783-0666

AREAS OF INTEREST: Comprehensive city, state, regional, and national planning; urban renewal; mass transportation; continuing education; professional development; planning research; planning practice; national legislation.

HOLDINGS: Data, departmental library.

PUBLICATIONS: *AIP Journal* (bimonthly); *AIP Newsletter* (monthly); proceedings, membership directory, background papers, testimony.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and consulting services.

AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC.

0184 101 Park Ave.
New York, N.Y. 10017
Tel: (212) 685-7374

AREAS OF INTEREST: Structural steel and its application to buildings and bridges.

HOLDINGS: A file of indexed abstract cards on published and unpublished, foreign and domestic, literature on structural steel technology; a small collection of books, periodicals, and reports.

PUBLICATIONS: *Modern Steel Construction* (quarterly); *Engineering Journal* (quarterly); specifications, manuals, textbooks, general and technical reports, general and technical reprints, membership list. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference, literature-searching, and abstracting and indexing services. The Institute has an information retrieval system through which it disseminates *Abstracts of Documents* on structural steel application and research and a *Coordinate Index* to the abstracts. A separate thesaurus of keywords for bridges and buildings is used for both document and photographic retrieval. The primary emphasis of the information retrieval system is on current published and unpublished material from worldwide sources. Access to this retrieval system is also provided through 26 regional engineer offices located throughout the United States.

AMERICAN INSTITUTE OF TIMBER CONSTRUCTION

0185 333 West Hampden Ave.
Englewood, Colo. 80110
Tel: (303) 761-3212

AREAS OF INTEREST: Construction standards for engineered timber structures; design, fabrication, erection, and utilization of structural timber framing; building codes and safety regulations covering engineered timber construction.

HOLDINGS: 650 books; 25 periodical titles; 150 reports; films, photos, data.

PUBLICATIONS: *AITC Timber Construction Manual*; *AITC Timber Construction Standards* and other technical data; *AITC Objectives, Activities, Services*; reports.

INFORMATION SERVICES: Answers inquiries; permits onsite use of collection.

AMERICAN IRON ORE ASSOCIATION

0186 600 Bulkley Bldg.
1501 Euclid Ave.
Cleveland, Ohio 44115
Tel: (216) 241-8261

AREAS OF INTEREST: Iron ore statistics on production, consumption, and stocks on hand, plus miscellaneous statistics on world iron ore.

HOLDINGS: Data and miscellaneous articles on iron ore.

PUBLICATIONS: Monthly reports and annual volume of iron ore statistics; educational aids.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services.

AMERICAN LEATHER CHEMISTS ASSOCIATION

0187 Campus Station
University of Cincinnati
Cincinnati, Ohio 45221
Tel: (513) 475-2643

AREAS OF INTEREST: Chemistry and technology of skin, hide, and leather; methods of sampling and analyzing leather and tanning materials.

PUBLICATIONS: *Journal of the American Leather Chemists Association*.

INFORMATION SERVICES: Answers inquiries.

AMERICAN LUMBER STANDARDS COMMITTEE

0188 P.O. Box 1554
Rockville, Md. 20850

Location:
Hungerford Dr.
Rockville, Md.
Tel: (301) 762-5050

AREAS OF INTEREST: Size and grading standards for softwood lumber.

HOLDINGS: Standards and specifications.

PUBLICATIONS: Standards established by the Committee are published by the U.S. Department of Commerce.

INFORMATION SERVICES: Answers inquiries by telephone and correspondence, preferably not by personal visit; provides Government and private agencies with information on lumber standards.

AMERICAN MACHINE AND FOUNDRY CO.

Alexandria Division

0189 American Machine and Foundry Co.
1025 North Royal St.
Alexandria, Va. 22314
Tel: (703) 548-7221 Ext. 348

AREAS OF INTEREST: Space instrumentation; communications equipment; oceanography; electronics; meters; alarm systems; detection devices; educational equipment; spin-test units.

HOLDINGS: 1,190 books; 1,800 standards and specifications; 15,200 reports; 1,000 project records; 260 periodicals; 30 abstracts and indexes; 70 publication lists; 140 bibliographies; 280 pamphlets; newsletters, press releases, microfilm, microcard readers, data.

PUBLICATIONS: Research reports, speeches.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services; permits onsite use of collection on a need-to-know basis.

AMERICAN MANGANESE PRODUCERS ASSOCIATION

0190 302 North Main St.
Woodstock, Va. 22664
Tel: (703) 459-3644

AREAS OF INTEREST: Production, beneficiation, and use of domestic manganese bearing ores.

HOLDINGS: Reprints, bulletins, news articles, reports.

INFORMATION SERVICES: Answers inquiries, provides consulting services for fee.

AMERICAN MATHEMATICAL SOCIETY

0191 321 South Main St.
Providence, R.I. 02904
Tel: (401) 272-9500

AREAS OF INTEREST: Mathematics, including probability; statistics; econometrics; theory of games and linear programming; computational science; astronomy; relativity; mechanics; mathematical physics.

PUBLICATIONS: *Translations of Mathematical Monographs*; *Translations--Series I and II*; *Selected Translations in Mathematical Statistics and Probability*; *Transactions of the Moscow Mathematical Society*; *Index to Translations Selected by the AMS*; *Proceedings of the Steklov Institute of Mathematics in the Academy of Sciences of the USSR*; *Proceedings of Symposia in Applied Mathematics*; *Mathematical Reviews Cumulative Indices*; *Proceedings of Symposia in Pure Mathematics*; *Memoirs*; *Mathematical Surveys*; *Selected Papers of Richard von Mises*; *Colloquium Publications*; *Romanian-English Dictionary and Grammar for the Mathematical Sciences*; *Russian-English Dictionary of the Mathematical Sciences*; *Lectures in Applied Mathematics*; *Norbert Wiener Memorial*; *Bulletin* (bimonthly); *Mathematics of Computation* (quarterly); *Notices* (bimonthly); *Mathematical Reviews* (quarterly); *Proceedings* (bimonthly); *Transactions* (bimonthly); *Chinese Mathematics--Acta* (bimonthly); *New Publications* (quarterly); *Soviet Mathematics--Doklady* (bimonthly); *Izvestija--Mathematics of USSR* (bimonthly); *Sbornik--Mathematics of USSR*; bibliographies, directories, indexes, catalog of publications, employment register.

INFORMATION SERVICES: Answers inquiries; makes referrals; makes available current and back publications and indices. A Mathematical Offprint Service providing current journal offprints from world literature, according to the subscriber's interest profile, is also available.

AMERICAN MERCHANT MARINE INSTITUTE, INC.

0192 919 18th St. NW.
Washington, D.C. 20006
Tel: (202) 296-4450

Branch Office:

11 Broadway
New York, N.Y. 10004
Tel: (212) 943-7661

AREAS OF INTEREST: All phases of the world shipping industry, with primary focus on shipping under the U.S. flag, and emphasis on national legislation, international maritime activities, and technical developments within and affecting the industry; harbor improvements; Panama Canal; oil pollution; tankers.

HOLDINGS: 800 books; 25 periodical titles; reports, data. Most of the literature collection is located in the Washington, D.C., office.

PUBLICATIONS: Legislative reports (quarterly, with annual cumulations); reprints of Government documents; bulletins.

INFORMATION SERVICES: Answers inquiries; permits onsite reference by request.

AMERICAN METAL CLIMAX, INC.

Technical and Business Library

0193 American Metal Climax, Inc.
1270 Avenue of the Americas
New York, N.Y. 10020
Tel: (212) 757-9700

AREAS OF INTEREST: Mining and metallurgy (nonferrous), particularly molybdenum, aluminum, copper, lead, zinc, and germanium; potash; chlorine, coal mining; fertilizers; African advancement and labor relations in Zambia.

HOLDINGS: 10,000 books; 1,000 journals; reports, maps, charts, patents, data.

PUBLICATIONS: Accessions list (monthly).

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite reference by request.

AMERICAN METAL STAMPING ASSOCIATION

0194 3673 Lee Rd.
Cleveland, Ohio 44120
Tel: (216) 751-8855

AREAS OF INTEREST: Metal stamping and related areas.

HOLDINGS: 125 books; 300 journals; reports, data.

PUBLICATIONS: *Technical Meeting Transcript* and *Stamping Guide* (both annual); *Metal Stamper* (monthly newsletter).

INFORMATION SERVICES: Provides reference and consulting services to members; permits onsite use of literature collection.

THE AMERICAN MUSEUM OF NATURAL HISTORY

0195 Central Park West at 79th St.
New York, N.Y. 10024
Tel: (212) 873-1300

AREAS OF INTEREST: Animal behavior; anthropology; archeology; astronomy; biology; ecology; entomology; ethnology; fossil invertebrates; geology; herpetology; ichthyology; living invertebrates; mammalogy; micropaleontology; mineralogy; ornithology; vertebrate paleontology; zoology; classification and distribution; exhibition; education.

HOLDINGS: The research collections are a repository for tens of millions of anthropological, geological, and zoological specimens. The study collection of ethnological, archeological, and skeletal materials is one of the most comprehensive in the world. The Museum's General Library has almost 275,000 volumes devoted to the natural sciences. In addition, the Museum maintains the following special libraries: Hayden Planetarium Library; Osborn Library of Vertebrate Paleontology; Dean Memorial Library (ichthyology). The Division of Photography and Slides has 400,000 cataloged black and white negatives and 25,000 color slides.

PUBLICATIONS: A popular publication is *Natural History* (10 issues a year); scientific publications are *American Museum Novitates* (irregular), *Bulletin of the American Museum of Natural History* (irregular), *Anthropological Papers of the American Museum of Natural History* (irregular), and *Curator* (4 issues a year, a professional journal for museums).

INFORMATION SERVICES: The General Library, which is open to the public, provides bibliographic aid and answers specific questions as time permits. The Osborn Library of Vertebrate Paleontology, the Dean Memorial Library, and the Hayden Planetarium Library may be consulted upon request by professionals and students. Photographs and slides are available for reference and purchase. The Education Department presents courses, lectures, and films to specific groups and the general public. The Museum sponsors research in its 12 scientific departments and at its five field stations and on expeditions to all parts of the world. Facilities of the five field research stations are open to qualified investigators in the biological sciences and in geology and astronomy. The field research stations are the Archbold Biological Station at Lake Placid, Florida; Kalbfleisch Field Research Station at Huntington, L.I., New York; Lerner Marine Laboratory at Bimini, Bahamas; Southwestern Research Station at Portal, Arizona; and Great Gull Island, New York.

AMERICAN NATIONAL STANDARDS INSTITUTE

0196 1430 Broadway
New York, N.Y. 10018
Tel: (212) 868-1220 Ext. 849

AREAS OF INTEREST: The Institute acts as the national coordinating institution for voluntary standardization through which interested organizations may cooperate in establishing, recognizing, and improving voluntary standards of the United States. It also represents United States interests in international standards work. National standards approved by the Institute as American National Standards cover many fields, including the following: acoustics, vibration, mechanical shock, and sound recording; automotive; civil engineering and construction; consumer goods; drawings, symbols, and abbreviations; electrical engineering; ferrous and nonferrous materials and metallurgy; gas-burning appliances; information processing; materials handling; mechanical engineering; mining; nuclear; office equipment and supplies; petroleum products; piping and processing equipment; photography and motion pictures; and safety.

HOLDINGS: 3,600 American National Standards; international standards published by the International Organization for Standardization (ISO), International Electrotechnical Commission (IEC), Pan American Standards Commission (COPANT), and the International Commission on Rules for Approval of Electrical Equipment (CEE).

PUBLICATIONS: *American National Standards* (new and revised, normally published in English only); Standards Institute *Reporter* (biweekly); *Standards Action* (biweekly); *American National Standards Institute Catalog* (annual).

INFORMATION SERVICES: The Institute's Department of Public Information answers inquiries and makes referrals.

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AMERICAN NEWSPAPER PUBLISHERS ASSOCIATION

Research Institute

0197 American Newspaper Publishers Association
P.O. Box 598
Easton, Pa. 18042

Location:
1350 Sullivan Trail
Easton, Pa.
Tel: (215) 253-6155

AREAS OF INTEREST: Newspaper publishing research; computer composition; printing; ink; paper newsprint; stereotyping; engraving; press design; typesetting; lithography; letterpress; Ferromagnetography; electrostatography.

HOLDINGS: 650 books; 600 journals; 200 reports; 200 graphs and tables; 160 project records; 11 standards and specifications; 25 reviews; 28 motion picture films; 3,000 still photographs; 20 abstracts and indexes; 2,400 preprints and reprints; 200 pamphlets; 1,400 newsletters; 5,400 clippings.

PUBLICATIONS: *ANPA Research Institute Bulletin*; *ANPA/RI Newsletter*; reports, pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services for fee.

AMERICAN NUCLEAR SOCIETY

0198 244 East Ogden Ave.
Hinsdale, Ill. 60521
Tel: (312) 325-1991

AREAS OF INTEREST: Nuclear state of the arts and applications in aerospace, education, fuel cycle, isotopes and radiation, material science and technology, mathematics and computation, nuclear criticality safety, power, reactor operations and physics, remote systems technology, shielding and dosimetry, and nuclear explosives engineering.

PUBLICATIONS: *Nuclear Science and Engineering* (monthly); *Nuclear Applications & Technology* (monthly); *Nuclear News* (monthly); *Transactions of the American Nuclear Society* (semiannual); *Proceedings of the Conference on Remote Systems Technology* (annual); *Nuclear Engineering Bulletin* (periodically); standards, monographs.

INFORMATION SERVICES: Answers inquiries; makes referrals.

AMERICAN OIL CHEMISTS' SOCIETY

0199 35 East Wacker Dr.
Chicago, Ill. 60601
Tel: (312) 782-2455

AREAS OF INTEREST: Industrial technology of fats, detergents, and protective coatings, including synthesis and separation of industrial fat products, industrially oriented analyses and methods, and chemical alterations or processes for commercial fats and fatty acids; lipids, including basic metabolic experiments with lipids, nutritional and physiological responses to fats and other lipids, new information on the composition of natural lipids of plant or animal origin, biomedical studies on tissue lipids and their functions, and analytical methodology oriented toward research techniques rather than manufacturing process controls.

HOLDINGS: Books, periodicals, indexes, official and tentative methods, bound lectures and proceedings from special programs.

PUBLICATIONS: *The Journal of the American Oil Chemists' Society* (monthly, industrially oriented) and indexes to the *Journal* and its predecessor publications from 1917; *Lipids* (monthly, basic research oriented); *Short Course Lectures* (annual); *Official and Tentative Methods of Analysis* (revised annually); *Membership Directory* (annual).

INFORMATION SERVICES: Answers inquiries; makes referrals; dispenses official standard supplies; conducts two national technical meetings annually; conducts short courses; certifies referee chemists.

AMERICAN OPTICAL CORP.

Research Center Library

0200 American Optical Corp.
14 Mechanic St.
Southbridge, Mass. 01550
Tel: (617) 764-3211 Ext. 205

AREAS OF INTEREST: Physics; optics; microscopy; ophthalmology; glass technology.

HOLDINGS: 4,270 books; 195 journal subscriptions; 1,630 reports; a special collection of early works on optics.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite use of collection by special arrangement.

AMERICAN OPTOMETRIC ASSOCIATION

0201 7000 Chippewa St.
St. Louis, Mo. 63119
Tel: (314) 832-5770

Washington Office:
1026 17th St. NW.
Washington, D.C. 20036
Tel: (202) 783-4010

AREAS OF INTEREST: Occupational vision; motorists' vision; highway safety; clinical techniques; contact lenses; orthoptics and visual training; opthalmic standards; visual problems of children, adults, and the aged; public health and optometric care; vision research; aid to the partially sighted; urban optometry; vocational guidance.

HOLDINGS: Data.

PUBLICATIONS: *Journal of the American Optometric Association* (monthly); *AOA News* (monthly); educational materials such as brochures and charts.

INFORMATION SERVICES: Provides reference and consulting services; provides duplication services for fee; makes referrals.

AMERICAN ORDNANCE ASSOCIATION

0202 815 17th St. NW.
Washington, D.C. 20006
Tel: (202) 347-7250

AREAS OF INTEREST: All weapons systems, including artillery; bombs, warhead, and artillery ammunition; combat and tactical vehicles; electronics; fire control instruments; missiles and astronautics; small arms and small-arms ammunition; underwater ordnance; critical components; logistics; materials; packaging; production equipment and techniques; standards and metrology (weights and measures); technical documentation; and value engineering.

PUBLICATIONS: *Ordnance* (bimonthly); *Armament--Progress and Readiness* (bimonthly); *The Common Defense* (monthly newsletter).

INFORMATION SERVICES: Provides consulting and reference services to Department of Defense and other Government agencies; makes referrals for non-Government inquiries.

AMERICAN PAPER INSTITUTE, INC.

0203 260 Madison Ave.
New York, N.Y. 10016
Tel: (212) 889-6200

AREAS OF INTEREST: Pulp, paper, and paperboard industry, including such aspects as manufacturing, imports, international trade, economics, marketing services, Government relations, public relations, financial management, industrial relations, recruitment of manpower, and transportation.

HOLDINGS: A library of about 1,000 books, plus magazines, articles, reports, Government publications, etc. relating directly or indirectly to the paper industry.

PUBLICATIONS: *Monthly Statistical Summary*; *Labor and Operating Report* (monthly and annual); *Capital and Income Survey* (quarterly and annual); *Pulp, Paper and Paperboard Capacity Survey* (annual); *Statistics of Paper* (with annual supplements); *API Report*; weekly production ratio report; weekly news release; *Of Paper and Opportunity*; *Grow With an Exciting Business*; *How You Can Make Paper*; *How Paper Serves America*; fact sheet.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite use of collection.

Printing-Writing Paper Division

Plastics Extrusion Coaters Group

0204 Printing-Writing Paper Division
American Paper Institute, Inc.
260 Madison Ave.
New York, N.Y. 10016
Tel: (212) 889-6200

AREAS OF INTEREST: Plastics; plastics extrusion.

HOLDINGS: Reports.

PUBLICATIONS: *Standards for Plastics Extrusion Coating*; *Water Vapor Transmission Rate Test Procedure*; *Slip*; *Basis Weight Determination Standard Test Method*; *Standard Measurement of Surface Treatment*.

INFORMATION SERVICES: Answers inquiries; provides reference and consulting services; formulates standards for distribution on request.

AMERICAN PETROLEUM INSTITUTE

0205 1801 K St. NW.
Washington, D.C. 20006

Tel: (202) 833-5600

Branch Office:
300 Corrigan Tower Bldg.
Dallas, Tex. 75201
Tel: (214) 741-6791

AREAS OF INTEREST: Petroleum and related subjects, including exploration, production, refining, marketing and transportation, air and water conservation, toxicology, finance and accounting, statistics, and public affairs.

HOLDINGS: The Institute's main library located at the Washington office consists of some 4,000 books, 1,400 bound journals, 16,000 reports, papers, etc., and a complete collection of API publications.

PUBLICATIONS: *Drilling and Production Practice* (annual); *Proceedings--Division of Refining* (annual); *Petroleum Today* (quarterly); *API Abstracts of Refining Patents* and *API Abstracts of Refining Literature* (weekly); *Abstracts of Air and Water Conservation* (weekly); *Index of Papers Sponsored by Division of Production* (1927-1963); *Petroleum Facts and Figures* (handbook); *Weekly Statistical Bulletin*; *Annual Statistical Review*; *Toxicological Reviews*; Standards and Recommended Practices for equipment. A price list is available.

INFORMATION SERVICES: Answers inquiries; provides reference services. The main library is open to the public and makes interlibrary loans to API members, Special Libraries Association members, and school and university libraries. Training and orientation films are available from the Division of Production in Dallas and the Committee on Public Affairs in Washington.

AMERICAN PLYWOOD ASSOCIATION

Information Center

0206 Records Department
American Plywood Association
1119 A St.
Tacoma, Wash. 98401
Tel: (206) 272-2283

AREAS OF INTEREST: Engineering research and quality control of western softwood and southern pine plywood; basic properties of plywood, such as strength and stiffness, vapor transmission, thermal insulation, and preservative and fire-retardant treatment; use of fasteners in plywood; structural applications of plywood in glued assemblies; recommended uses of plywood; conservation; forestry management; ecology.

HOLDINGS: Books, journals, reports.

PUBLICATIONS: *American Plywood Association: What It Is, What It Does*; standards and specifications, index, laboratory bulletins. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and consulting services; makes interlibrary loans.

AMERICAN POTASH INSTITUTE, INC.

0207 1102 16th St. NW.
Washington, D.C. 20036
Tel: (202) 628-1534

AREAS OF INTEREST: Use of potash in fertilizers; factors, especially nutrition, affecting efficient production of crops; soil fertility; fertilization of pastures, row-crops, orchards, and forests; plant food utilization.

HOLDINGS: 8,500 abstracts and indexes; 8,000 periodicals; 1,000 slides; 450 books; 5,500 pamphlets.

PUBLICATIONS: *Better Crop With Plant Food* (magazine, 6 issues a year); *Potash Newsletter* (15 a year, regionalized); *Potash Abstracts* (6 a year).

INFORMATION SERVICES: Answers inquiries; provides consulting and limited bibliographic services; provides speakers for meetings; makes field demonstrations; permits onsite use of collection.

AMERICAN POWDER METALLURGY INSTITUTE

0208 201 East 42d St.
New York, N.Y. 10017
Tel: (212) 682-0115

AREAS OF INTEREST: Metal powders; powder metallurgy processes and products.

HOLDINGS: Books, monographs, reports, standards and specifications, reviews, periodicals, newsletters, preprints, reprints, publication lists, bibliographies, pamphlets, booklets, leaflets, brochures, press releases, clippings.

PUBLICATIONS: *International Journal of Powder Metallurgy* (quarterly); *Powder Metallurgy Information Bulletin* (monthly); standards, proceedings. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals.

AMERICAN PRODUCTION AND INVENTORY CONTROL SOCIETY

0209 Watergate Office Bldg., Suite 504
2600 Virginia Ave. NW.
Washington, D.C. 20037
Tel: (202) 333-1660

AREAS OF INTEREST: Production planning; production control; inventory management; materials management; physical distribution.

HOLDINGS: Periodicals, technical reports, newsletters, clippings, bibliographies, reprints, pamphlets, press releases, posters and display materials.

PUBLICATIONS: *APICS Quarterly Bulletin*; *APICS Bibliography* (periodically); *APICS Dictionary* (periodically); *Conference Proceedings* (annual); *Training Manual*; special reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite use of collection.

AMERICAN PUBLIC HEALTH ASSOCIATION

0210 1740 Broadway
New York, N.Y. 10019
Tel: (212) 245-8000

AREAS OF INTEREST: Public health aspects of dental health, engineering and sanitation, epidemiology, food and nutrition, laboratory procedures, maternal and child health, medical care, mental health, occupational health, radiological health, and school health; public health education and nursing; public health statistics.

HOLDINGS: Small reference collection.

PUBLICATIONS: *American Journal of Public Health and the Nation's Health* (monthly); *Health Laboratory Science* (quarterly); *Medical Care* (bimonthly); *Current Bibliography in Epidemiology* (monthly with annual cumulative issue); control handbooks, guidelines, laboratory procedures manuals. A publications price list is available.

INFORMATION SERVICES: Provides consulting and reference services.

AMERICAN PUBLIC POWER ASSOCIATION

0211 2600 Virginia Ave. NW., Suite 212
Washington, D.C. 20037
Tel: (202) 333-9200

AREAS OF INTEREST: All aspects of planning, construction, and operation of facilities of municipally-owned electric systems; electric utility industry in general, including private power and rural electrification.

HOLDINGS: Books, reports, project records, standards and specifications, pamphlets, booklets, brochures, and an extensive collection of legislative material and statistics relating to the development of the electric industry in the United States. For use by members only is a collection of material on rates, rules and regulations, distribution and construction standards, municipal utility organization, and employee training.

PUBLICATIONS: *Public Power* (monthly); APPA Weekly Newsletter; Nuclear Power Newsletter; Safety Manual; pamphlets, booklets, brochures. A price list is available.

INFORMATION SERVICES: Answers inquiries as time permits. Staff members are available to serve as consultants to members and prospective members on specialized subjects.

AMERICAN PUBLIC WORKS ASSOCIATION

0212 1313 East 60th St.
Chicago, Ill. 60637
Tel: (312) 324-3400

AREAS OF INTEREST: Planning, design, construction, operation, maintenance, and administration of all public works, including air terminals, highways, water treatment and distribution facilities, sewer systems, sewage treatment facilities, refuse collection and disposal facilities, public buildings, and other community facilities; public works education and training; public works research.

HOLDINGS: The Association's literature collection is maintained by the Joint Reference Library, which is supported by 13 member organizations located at the 1313 Center.

PUBLICATIONS: *APWA Reporter* (monthly magazine); annual directory; newsletters of the Association's Institute for Solid Wastes and Institute for Municipal Engineering (quarterly); special reports, standards and specifications, handbooks. A publications list is available.

INFORMATION SERVICES: Answers inquiries.

INFORMATION SERVICES: Answers brief inquiries; makes referrals. Services are primarily for members and affiliates.

AMERICAN PULPWOOD ASSOCIATION

0213 605 Third Ave.
New York, N.Y. 10016
Tel: (212) 687-2272

AREAS OF INTEREST: Pulpwood, including technology, safety and training, statistics, forest management, legislation, harvesting, logging, transportation, storage, utilization, and conservation.

PUBLICATIONS: *The Pulpwood Annual*; *APA Quarterly*; *Technical Releases*; papers, legislative bulletins, statistical reviews, training guides, film directory, pamphlets. A price list is available.

INFORMATION SERVICES: Answers inquiries; provides consulting services to members and subscribers.

AMERICAN RADIO RELAY LEAGUE, INC.

0214 225 Main St.
Newington, Conn. 06111
Tel: (203) 666-1541

AREAS OF INTEREST: Technical, operating, organizational, and regulatory aspects of the amateur radio service.

PUBLICATIONS: *QST* (monthly magazine); *The Radio Amateur's Handbook*; *A Course in Radio Fundamentals*; *The A.R.R.L. Antenna Book*; *Understanding Amateur Radio*; other books, manuals, pamphlets. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides bibliographic services and information on how to obtain an amateur radio license.

AMERICAN RAILWAY CAR INSTITUTE

0215 11 East 44th St.
New York, N.Y. 10017
Tel: (212) 867-6577

AREAS OF INTEREST: Railway car building and manufacture, including freight and passenger cars; engineering and design problems in the construction of freight cars; car utilization and retirement; economic and financial trends in the railroad industry; commodity trends.

HOLDINGS: Current statistics on orders, deliveries, and backlogs of new freight and passenger railroad cars; historical data on railroad equipment; studies.

PUBLICATIONS: Statistical reports.

AMERICAN ROAD BUILDERS' ASSOCIATION

0216 525 School St. SW.
Washington, D.C. 20024
Tel: (202) 737-5440

AREAS OF INTEREST: Highway development.

INFORMATION SERVICES: Answers inquiries without charge unless extensive services are required; makes referrals.

AMERICAN SAFETY BELT COUNCIL, INC.

0217 271 North Ave.
New Rochelle, N.Y. 10801
Tel: (914) 235-4020

AREAS OF INTEREST: Motor vehicle passenger restraint systems; automotive safety belt standards.

PUBLICATIONS: Motion picture films, bibliographies, brochure.

INFORMATION SERVICES: Answers inquiries; provides literature-searching services; lends films free to nonprofit organizations and for fee to commercial and profit organizations.

AMERICAN SCIENTIFIC GLASSBLOWERS SOCIETY

0218 309 Georgetown Ave.
Wilmington, Del. 19809
Tel: (302) 798-4498

AREAS OF INTEREST: Scientific glassblowing, and related apparatus, equipment, and materials.

PUBLICATIONS: *Fusion* (quarterly); symposium proceedings (annual).

INFORMATION SERVICES: Answers inquiries; makes referrals.

AMERICAN SHORE AND BEACH PRESERVATION ASSOCIATION

0219 P.O. Box 1246
Rockville, Md. 20850

Location:

10812 Admirals Way
Potomac, Md.
Tel: (301) 299-5603

AREAS OF INTEREST: Preservation of coastal resources of the nation, including erosion problems of the coastal areas and the shores of our lakes and rivers.

HOLDINGS: Engineering, economic, and legislative studies relating to the coastal environment.

PUBLICATIONS: *Shore and Beach* (semiannual) and a monthly newsletter, both available to nonmembers by subscription.

INFORMATION SERVICES: Answers inquiries; makes referrals. The Association does not have free material suitable for study courses.

AMERICAN SOCIETY FOR CHURCH ARCHITECTURE

0220 266 Pearl St.
Hartford, Conn. 06103

AREAS OF INTEREST: Church architecture; design, construction, operation, and maintenance of church and church-related structures.

PUBLICATIONS: *Journal of the American Society for Church Architecture*; reprints, bibliographies, pamphlets, press releases, posters and other display materials.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services; organizes conferences on church architecture and sponsors research studies and seminars. Slides and educational display materials are available for shipping costs.

THE AMERICAN SOCIETY FOR CYBERNETICS

0221 2121 Wisconsin Ave. NW.
Washington, D.C. 20007
Tel: (202) 338-8500

AREAS OF INTEREST: Cybernetics, as it applies to large teleological systems, their analysis, and applications to all related branches of the sciences.

HOLDINGS: Small working collection of books, periodicals, and reports.

PUBLICATIONS: Proceedings of the Society, brochure, reports, newsletter.

INFORMATION SERVICES: Answers inquiries; makes referrals.

AMERICAN SOCIETY FOR INFORMATION SCIENCE

0222 1140 Connecticut Ave. NW., Suite 804
Washington, D.C. 20036
Tel: (202) 659-3644

The American Society for Information Science was formerly the American Documentation Institute.

AREAS OF INTEREST: All aspects of information transfer, including documentation, indexing, punched card techniques, information storage and retrieval, classification and coding systems, machine translation, electonic devices, automated language processing, library automation and networks, reprography, information analysis centers, selective dissemination of information systems, education for information science, and the documentation of such technical areas as chemical information, the arts and humanities, and others.

HOLDINGS: Books, journals, and some Government reports and industrial literature. The Auxiliary Publications Program of ASIS consists of a central depository where an editor of a scientific, technical, scholarly, or abstracting journal or publication may deposit auxiliary data such as tables, photos, charts, graphs, and bibliographies, which he considers too extensive for publication in standard form. The document number, price, and availability of the material must be published as a footnote to the article itself. Photocopies may be obtained by anyone furnishing the document number and the requisite fee.

PUBLICATIONS: *Journal of the American Society for Information Science* (bimonthly, formerly *American Documentation*); *ASIS Newsletter* (bimonthly); *Annual Review of Information Science and Technology* (annual); *Proceedings* (annual). ASIS is also a cosponsor of *Information Science Abstracts*.

INFORMATION SERVICES: Provides limited reference and consulting services to nonmembers on an individual basis; makes reprints available.

ASIS operates the ERIC Clearinghouse on Library and Information Sciences for the U.S. Office of Education.

AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING

0223 914 Chicago Ave.
Evanston, Ill. 60202
Tel: (312) 475-4600

AREAS OF INTEREST: Techniques for the nondestructive testing of metals, ceramics, wood, plastics, and components, utilizing penetrating radiation, ultrasonics, magnetic particles, eddy currents, fluorescent penetrants, gaging, metrology, and thermographic methods; improved product quality, predictable reliability, and effective process control of nondestructive testing techniques.

HOLDINGS: Books, journals, films, photos.

PUBLICATIONS: *Materials Evaluation* (monthly; all volumes since 1942 of this publication and its predecessor, the bimonthly *Nondestructive Testing*, are also for sale on microfilm); proceedings, standards and specifications, data handbook, state-of-the-art reviews. A price list is available.

INFORMATION SERVICES: Answers inquiries; provides reference services; provides duplication services for fee; lends books and films; permits onsite use of collection.

AMERICAN SOCIETY FOR OCEANOGRAPHY

0224 854 Main Bldg.
Houston, Tex. 77002
Tel: (713) 227-4411

AREAS OF INTEREST: Oceanography.

PUBLICATIONS: *American Oceanography* (monthly newsletter); reports on research, legislation, and worldwide activities; proceedings, brochures.

INFORMATION SERVICES: Answers inquiries; provides consulting services; furnishes speakers for high schools, colleges, and civic groups; provides advisory committees on educational curricula and industrial research; sponsors oceanography symposia. Services are provided without charge.

AMERICAN SOCIETY FOR QUALITY CONTROL, INC.

0225 161 West Wisconsin Ave.
Milwaukee, Wis. 53203
Tel: (414) 272-8575

AREAS OF INTEREST: Application of quality control in aircraft, missile, automotive, chemical, electronics, textile, and food industries, and reliability for all industrial processes and service; industrial processing research.

PUBLICATIONS: *Quality Progress* (monthly).

INFORMATION SERVICES: Answers inquiries; makes referrals.

AMERICAN SOCIETY FOR TESTING AND MATERIALS

0226 1916 Race St.
Philadelphia, Pa. 19103
Tel: (215) 569-4200

AREAS OF INTEREST: Standardization of specifications and methods of testing materials, including ferrous and nonferrous metals, cement, lime, gypsum, mortar, concrete, mineral aggregates, bituminous materials, soils, asbestos-cement products, masonry units, pipe and drain tile, refractories, ceramic whitewares, porcelain enamel, glass, building stone, thermal insulation, acoustical materials, paper and packaging, adhesives, wood, cellulose, casein, leather, petroleum products and lubricants, paint, naval stores, coal and coke, gaseous fuels, industrial aromatic hydrocarbons, industrial chemicals, plastics, carbon black, textiles, soap, sorptive mineral materials, organic solvents, industrial water, wax polishes, rubber, and electrical insulation; identification of phases from diffraction data, either X-ray or electron, that have been obtained from a powder; spectral absorption data and chemical structure, mass spectral data, and gas chromatographic data.

HOLDINGS: Technical and scientific data, periodicals.

PUBLICATIONS: *Materials Research and Standards* (monthly); *Book of ASTM Standards* (annual), consisting of 33 parts; *ASTM Index to Standards* (annual); *ASTM Proceedings* (official annual record); fifty-year index and five-year indexes to ASTM technical papers and reports. A publications price list is available. ASTM is also responsible for the distribution of the *Powder Diffraction Data File* compiled by the Joint Committee on Powder Diffraction Standards under the joint auspices of ASTM, the American Crystallographic Association, the British Institute of Physics, and the National Association of Corrosion Engineers. The *Powder Diffraction Data File* (issued on 3x5 index cards and in book form for revised sets) is used for the identification of phases from diffraction data, either X-ray or electron, that have been obtained from a powdered crystalline material. Powder diffraction data is also available on magnetic tape, with Fortran programs for computer searching. Comprehensive indexes are available.

INFORMATION SERVICES: Answers inquiries. A standards and specifications service provides reference services and referral assistance without charge.

ASTM Committee D-19 on Industrial Water

0227 American Society for Testing and Materials
1916 Race St.
Philadelphia, Pa. 19103
Tel: (215) 569-4200

AREAS OF INTEREST: Water and water-formed deposits; methods and standards for sampling and testing water and water-formed deposits, including chemical and biological analysis.

PUBLICATIONS: Reports, specifications, definitions, methods of testing, manuals.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Committee D-20 on Plastics

0228 American Society for Testing and Materials
1916 Race St.
Philadelphia, Pa. 19103
Tel: (215) 569-4200

AREAS OF INTEREST: Standards for plastics; methods of testing plastics.

HOLDINGS: 250 standards.

PUBLICATIONS: Parts 26 and 27 of annual *Book of ASTM Standards*; separate reprints of each standard.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; permits onsite use of collection.

Diffraction Data Department

0229 American Society for Testing and Materials
1916 Race St.
Philadelphia, Pa. 19103
Tel: (215) 569-4200

AREAS OF INTEREST: Powder diffraction data.

HOLDINGS: Powder diffraction data; 10,000 books; reports.

PUBLICATIONS: Abstracts, books.

INFORMATION SERVICES: Answers inquiries; provides consulting and abstracting services; permits onsite use of collection. A fee is charged for data bank compilations in reply to highly technical inquiries.

AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS

0230 2950 Niles Rd.
St. Joseph, Mich. 49085
Tel: (616) 983-6521

AREAS OF INTEREST: All aspects of agricultural engineering, including farm structures and structural equipment; animal shelters; design of tractors and other machinery; farm power (electrical equipment and wiring practice); soil and water management; hydrology; feed and food drying, processing, storage, and handling; instrumentation; radiation.

PUBLICATIONS: *Agricultural Engineering* (monthly); *Transactions of the ASAE* (quarterly); *Agricultural Engineers Yearbook*, which includes ASAE standards, recommendations, and data; bibliographies; survey reports; conference and seminar proceedings. A price list is available on request.

INFORMATION SERVICES: Answers technical inquiries by citing ASAE publications or by referring inquirers to ASAE members.

AMERICAN SOCIETY OF AGRONOMY

0231 677 South Segoe Rd.
Madison, Wis. 53711
Tel: (608) 238-4222

The Society is closely associated with the Crop Science Society of America and the Soil Science Society of America. Society committees cover such subjects as International Agronomy, Public Service, Visiting Scientists, Achievement Awards, Student Activities, and Information Retrieval. Representatives maintain liaison with National Science Foundation, National Academy of Sciences, American Grasslands Council, AAAS, AIBS, American Meteorological Society, and other groups.

AREAS OF INTEREST: Agronomic education; agronomic extension; land use and management; climatology; soil physics; soil chemistry; soil fertility; plant nutrition; fertilizer technology and use; soil microbiology; soil genesis, morphology, and classification; soil and water management and conservation; forest and range soils; crop breeding, genetics, and cytology; crop physiology and metabolism; crop ecology, production, and management; crop quality and utilization; turfgrass management; seed production.

HOLDINGS: Back issues of *Agronomy Journal* (62 vols.). The Society shares a reference library of 600 books and several hundred pamphlets with two associated societies, the Crop Science Society of America and the Soil Science Society of America.

PUBLICATIONS: *Agronomy Journal* (bimonthly); *Crops and Soils* (9 issues a year); *Agronomy Abstracts* (annual); agronomy monographs (such as *Methods of Soil Analysis*, *Soil Nitrogen*, *Wheat*); special publication series (such as *Forage Economics*, *Potassium*, *Physiology of Crop Yield*, and *Nutrient Mobility in Soils*).

INFORMATION SERVICES: Answers inquiries; makes referrals; distributes some free publications; makes other publications available by subscription and purchase.

AMERICAN SOCIETY OF CIVIL ENGINEERS

0232 United Engineering Center
345 East 47th St.
New York, N.Y. 10017
Tel: (212) 752-6800

AREAS OF INTEREST: Civil engineering, including aerospace transport, construction, engineering mechanics, highways, hydraulics, irrigation and drainage, pipelines, power, sanitary engineering, soil mechanics and foundations, structural engineering, surveying and mapping, urban planning and development, and waterways, harbors, and coastal engineering.

PUBLICATIONS: *Civil Engineering* (monthly); journals (monthly, bimonthly, quarterly, and other) of the Society's 14 technical divisions; *Transactions of the ASCE* (annual); *Directory* (biennial); *ASCE Publications Abstracts* (bimonthly); *Combined Index to the Publications of ASCE* (annual); *Cumulative Index* (decennial); manuals and reports of engineering practices, annual report, guidance material.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides current-awareness and information-retrieval services.

AMERICAN SOCIETY OF ELECTROPLATED PLASTICS, INC.

0233 1000 Vermont Ave. NW.
Washington, D.C. 20005
Tel: (202) 628-4634

AREAS OF INTEREST: Electroplated plastics.

HOLDINGS: Small collection of books and reports.

PUBLICATIONS: Specifications, reports, membership directory, monthly bulletin.

INFORMATION SERVICES: Answers inquiries; makes referrals.

AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR-CONDITIONING ENGINEERS, INC.

0234 345 East 47th St.
New York, N.Y. 10017
Tel: (212) 752-6800 Ext. 360 or 361

AREAS OF INTEREST: Heating; refrigeration; air conditioning; ventilation; food preservation; physiology and human comfort; plant and animal physiology; odors; sound and vibration; lubrication; corrosion; water treatment; thermal insulation; cryogenics; ice making plants and skating rinks; air pollution; solar energy utilization; survival shelters; urban environment.

HOLDINGS: The Society uses the collections of the Engineering Societies Library, located at the same address.

PUBLICATIONS: *ASHRAE Journal* (monthly); *ASHRAE Transactions* (annual, in 2 parts); *ASHRAE Guide and Data Book* (in 3 volumes); *ASHRAE Handbook of Fundamentals*; standards, bulletins, abstracts, circulars, psychrometric charts.

INFORMATION SERVICES: Answers inquiries. Other services, including reference, literature-searching, and duplication services, are available from the Engineering Societies Library, some on a fee basis.

AMERICAN SOCIETY OF LIMNOLOGY AND OCEANOGRAPHY

0235 c/o W. K. Kellogg Biological Station
Michigan State University
Hickory Corners, Mich. 49060
Tel: (616) 671-5144

AREAS OF INTEREST: All aspects of fresh and marine waters; water quality; manpower in aquatic sciences; sources of limnological and oceanographic apparatus and supplies.

PUBLICATIONS: *Limnology and Oceanography* (bimonthly journal, available by subscription); reports, pamphlets.

INFORMATION SERVICES: Answers brief inquiries; provides limited career information. Requests for consultation by governmental and nonprofit organizations are referred to members or committees of the Society.

AMERICAN SOCIETY OF LUBRICATION ENGINEERS

0236 838 Busse Highway
Park Ridge, Ill. 60068
Tel: (312) 825-5536

AREAS OF INTEREST: Lubrication practices; lubricant reconditioning and disposal; properties of lubricants, seals, and packings; bearings and bearing lubrication; hydraulics and hydraulic machinery; lubrication equipment.

HOLDINGS: Books, journals, data.

PUBLICATIONS: *Lubrication Engineering* (monthly); *ASLE Transactions* (quarterly).

INFORMATION SERVICES: Makes referrals.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS

0237 345 East 47th St.
New York, N.Y. 10017
Tel: (212) 752-6800

AREAS OF INTEREST: The art and science of mechanical engineering and allied arts and sciences.

HOLDINGS: 500 books; 25 periodical titles; 500 reports.

PUBLICATIONS: *Applied Mechanics Reviews* (monthly); *Mechanical Engineering* (monthly); *Journal of Applied Mechanics* (quarterly); *Mechanical Engineers' Catalog* (annual).

INFORMATION SERVICES: Answers inquiries; makes referrals.

AMERICAN SOCIETY OF PLANNING OFFICIALS

0238 1313 East 60th St.
Chicago, Ill. 60637
Tel: (312) 324-3400

AREAS OF INTEREST: All aspects of community and regional planning and zoning; planning aspects of urban renewal.

HOLDINGS: A collection of development plans for cities, counties, and states, dating from 1935; planning studies; zoning and subdivision ordinances and legal decisions, stored in the form of 2,000 file-card abstracts; 30,000 books and research reports; 200 journal and periodical titles.

PUBLICATIONS: *ASPO Newsletter* (monthly); *TAB* (semimonthly job advertisements); *Planning Advisory Service Reports* (monthly); *Zoning Digest* (monthly); *Land Use Controls Review* (quarterly); *Planning* (annual volume of ASPO National Planning Conference papers). A list of other publications is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services on contract basis.

AMERICAN SOCIETY OF PROFESSIONAL DRAFTSMEN AND ARTISTS, INC.

0239 731-B Martin Dr.
Baltimore, Md. 21221
Tel: (301) 682-6721

AREAS OF INTEREST: Graphic arts; drafting techniques; mapping techniques; reproduction methods; audio-visual aides; training programs in graphic arts; photogrammetry; map scribing; animation; photography; television graphics; computer graphics; cartooning; engineering design and drawing; job placement in related fields; vocational-technical education program research.

HOLDINGS: Small reference collection of books and periodicals.

PUBLICATIONS: *ASPDA Newsletter* (quarterly); annual report, job market bulletins, brochure, abstracts and indexes, directories, reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, reference, literature-searching, and translation services. General information services are available to anyone; detailed, continued aid is given to members only.

AMERICAN SOCIETY OF QUESTIONED DOCUMENTS EXAMINERS

0240 1417 Esperson Bldg.
Houston, Tex. 77002
Tel: (713) 227-4451

AREAS OF INTEREST: Questioned document examination, including the identification of handwriting, typewriting, writing materials, and substitution or anything that may cause a document to be fraudulent, such as substitution of pages, insertion of typewritten or handwritten words, and addition of strokes of ink lines that change the content of a document.

HOLDINGS: 100 typewriting samples; 175 slides; photos, posters and display materials, technical reports, books, newsletters, reprints, pamphlets, press releases, clippings, microscopes, cameras, etc.

PUBLICATIONS: Two pamphlets: *Opinion Evidence That Can Be Seen* and *Questioned Document Specialists*.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and limited bibliographic services; suggests members who will perform professional questioned document services for fee.

AMERICAN SOCIETY OF RADIOLOGIC TECHNOLOGISTS

0241 645 North Michigan Ave.
Chicago, Ill. 60611
Tel: (312) 944-3410

AREAS OF INTEREST: Radiologic technology, including diagnostic X-ray, nuclear medicine technology, and radiation therapy technology.

PUBLICATIONS: *Radiologic Technology* (bimonthly technical journal); *ASRT Scanner* (bimonthly newsletter, for members only).

INFORMATION SERVICES: Answers specific questions; makes referrals; conducts educational programs for radiologic technologists.

AMERICAN SOCIETY OF SAFETY ENGINEERS

0242 850 Busse Highway
Park Ridge, Ill. 60068
Tel: (312) 692-4121

AREAS OF INTEREST: All aspects of safety engineering, accident prevention, traffic safety, and physical and environmental hazards; development of educational activities in response to the increased demand for professionals in the accident and loss prevention fields.

PUBLICATIONS: *ASSE Journal* (monthly, available to nonmembers by subscription); *A Selected Bibliography of Reference Materials in Safety Engineering and Related Fields*.

INFORMATION SERVICES: In handling requests for information, the Society in most cases attempts to provide the inquirer with a list of specialized sources of the information desired. When technical questions require considerable research and knowledge of a specialized area, the inquirer is referred to safety engineering consultants.

AMERICAN SOCIETY OF SANITARY ENGINEERING

0243 228 Standard Bldg.
Cleveland, Ohio 44113
Tel: (216) 621-8520

AREAS OF INTEREST: All aspects of sanitary engineering, including plumbing; gas and water supplies; drainage; sanitation codes; lake, river, ocean, and underground water pollution; radioactive waste disposal; sewage disposal; water purification; health as related to sanitation.

PUBLICATIONS: *ASSE Newsletter* (monthly); *Yearbook of the American Society of Sanitary Engineering*.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services.

AMERICAN SOCIETY OF TRAFFIC AND TRANSPORTATION, INC.

0244 22 West Madison St., Room 404
Chicago, Ill. 60602
Tel: (312) 263-3818

AREAS OF INTEREST: Traffic, transportation, and physical distribution management; transportation economics; transportation law and regulation; education in traffic, transportation, and physical distribution management.

HOLDINGS: 150 books; 2,200 periodicals; 90 reports; 2,000 pamphlets; standards and specifications, newsletters, publication lists, reviews, clippings.

PUBLICATIONS: *Transportation Journal* (quarterly); bibliographies, pamphlets, newsletters.

INFORMATION SERVICES: Makes referrals; administers an examination program leading to certification by the Society (an announcement of the examination program is mailed free on request).

AMERICAN STANDARD, INC.

Plumbing Products Division

Product Development Department Library

0245 Plumbing Products Division
American Standard, Inc.
P.O. Box 4037
Louisville, Ky. 40204

Location:
834 East Broadway
Louisville, Ky.
Tel: (502) 584-5201 Ext. 324 or 325

AREAS OF INTEREST: Ceramic and foundry technology; engineering; statistical methods; plastics technology; industrial and interior design; early plumbing fixtures and fittings industry.

HOLDINGS: 1,200 books; 880 bound volumes and 150 titles of periodicals; 1,800 reports; 6,000 patents; microforms of doctoral dissertations, periodical back files, and Government research reports; 3 vertical file drawers of clippings; Company product catalogs (current and historical), standards and specifications, slides, project records, newsletters, reprints, publication lists, bibliographies, pamphlets, data.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides limited reference and bibliographic services; permits onsite reference by request.

AMERICAN SYNTHETIC RUBBER CORP. LIBRARY

0246 P.O. Box 360
Louisville, Ky. 40201

Location:
Camp Ground Rd.
Louisville, Ky.
Tel: (502) 448-2761

AREAS OF INTEREST: Synthetic rubber.

HOLDINGS: 1,000 books; 50 periodical titles; 1,000 reports.

INFORMATION SERVICES: Provides reference services; provides duplication services for fee; permits onsite use of collection. Services are available only to special groups and generally only by prior arrangement with the librarian.

AMERICAN TEXTILE MACHINERY ASSOCIATION

0247 1730 M St. NW.
Washington, D.C. 20036
Tel: (202) 296-1460

AREAS OF INTEREST: Textile machinery; textiles; dyeing of fabrics.

HOLDINGS: Books, periodicals, reviews, standards and specifications, newsletters, pamphlets, publication lists, press releases, clippings, photos, slides, data.

PUBLICATIONS: Directories.

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes referrals; lend materials.

AMERICAN TEXTILE MANUFACTURERS INSTITUTE, INC.

0248 1501 Johnston Bldg.
Charlotte, N.C. 28202
Tel: (704) 334-4734

AREAS OF INTEREST: Textile manufacturing.

HOLDINGS: Economic data on textile industry.

PUBLICATIONS: Reports, news releases.

INFORMATION SERVICES: Answers inquiries; provides reference services.

AMERICAN TIME TRAVEL SOCIETY

0249 Rinehart S. Potts, President
American Time Travel Society
c/o Glassboro State College
Glassboro, N.J. 08028
Tel: (609) 881-8400 Ext. 286

AREAS OF INTEREST: Psychological, physical, and philosophic aspects of time, including relativistic effects and space travel; cosmology; time travel (implications and consequences); metaphysical problems of nature of time; interdisciplinary considerations.

HOLDINGS: 250 books; 950 journals; 400 reports.

PUBLICATIONS: *Chronon* (bimonthly); *Transactions* (irregular).

INFORMATION SERVICES: Answers inquiries.

AMERICAN TRANSIT ASSOCIATION

0250 815 Connecticut Ave. NW.
Washington, D.C. 20006
Tel: (202) 223-5770

AREAS OF INTEREST: The urban transit industry, including motor bus, trolley coach, streetcar, and rapid transit systems, or any combination of these modes of city and suburban mass passenger transportation in the United States and Canada; the collection, compilation, and availability of data and information relative to design, construction, maintenance, and operations; labor relations, including arbitration, wages and working conditions, personnel practices, safety, and accident prevention; financial and operating statistics; franchises; lease and management agreements; insurance and traffic congestion; public relations and promotion; urban planning; air pollution.

HOLDINGS: Books, motion pictures, traffic and transit studies, newsletters, periodicals, house organs, committee reports, technical papers and speeches. The vertical index files of the Association provide an up-to-date collection of facts about the transit industry.

PUBLICATIONS: *Passenger Transport* (weekly); *Transit Fact Book* (annual).

INFORMATION SERVICES: Permits onsite reference to files by qualified persons; provides special inquiry service for members having specific requests not covered by files; disseminates portfolios of general information on transit industry to public.

AMERICAN TRUCKING ASSOCIATIONS, INC.

0251 1616 P St. NW.
Washington, D.C. 20036
Tel: (202) 269-3000

AREAS OF INTEREST: Transportation, particularly by motor carriers; highway construction and development; motor equipment innovations; transportation statistics and research; Federal and State regulatory matters.

HOLDINGS: 7,500 books; 42,000 journals and reports; films, photos, data.

PUBLICATIONS: *Transport Topics* (weekly); *Intercity Truck Tonnage* (weekly, monthly, quarterly); *Financial and Operating Statistics, Class I-II Motor Carriers* (quarterly and annual); *Trends* (annual); *Truck Taxes by States* (annual).

INFORMATION SERVICES: Provides reference and consulting services; permits onsite reference.

AMERICAN UNIVERSITY

Center for Technology and Administration

0252 American University
3900 Wisconsin Ave. NW.
Washington, D.C. 20016
Tel: (202) 966-3752

AREAS OF INTEREST: Information processing, storage, and retrieval; automation; automatic data processing systems; management information; operations research; research and development administration.

HOLDINGS: Books, reports, tearsheets.

INFORMATION SERVICES: Provides limited reference services; permits onsite use of literature collection.

Facilities include computers for both scientific and business data processing.

AMERICAN WATCHMAKERS INSTITUTE

0253 P.O. Box 11011
Cincinnati, Ohio 45211

Location:

3810 Harrison Ave.
Cincinnati, Ohio
Tel: (513) 661-3838

AREAS OF INTEREST: Horology; watch and clock repair; education, training, research, and schools on these subjects.

HOLDINGS: 175 books; 450 journals and magazines; 180 technical reports; 500 pamphlets; 24 motion pictures; 275 photos; 800 slides; tapes, news releases.

PUBLICATIONS: Newsletters, brochure.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and limited bibliographic services; permits onsite use of collection. Services are provided primarily to members, but brief inquiries from bona fide researchers will be answered.

AMERICAN WATER RESOURCES ASSOCIATION

0254 P.O. Box 434
Urbana, Ill. 61801

Location:
130 North Race St.
Urbana, Ill.
Tel: (217) 367-9695

AREAS OF INTEREST: All aspects of water resources, including water pollution, irrigation, ground water, surface water, meteorology, and drainage.

HOLDINGS: 300 periodicals, and annuals, biennials, monographs, bulletins, etc., all located in the American Water Resources Library and Archives administered by the Association.

PUBLICATIONS: *Water Resources Bulletin Journal*, which includes the *Water Resources Newsletter* (bimonthly); *Hydata* (monthly review and index of 300 journals on water resources); *Water Resources Abstracts* (monthly); *Proceedings of the American Water Symposium* (annual).

INFORMATION SERVICES: Makes referrals to specialists in the water resources field.

AMERICAN WATER WORKS ASSOCIATION, INC.

0255 2 Park Ave.
New York, N.Y. 10016
Tel: (212) 686-2040

AREAS OF INTEREST: Management, operation, and maintenance of public water supply utilities; water quality; water treatment techniques and facilities; distribution of public water supplies; water rates; water storage.

HOLDINGS: A specialized library on water utilities.

PUBLICATIONS: *Journal American Water Works Association* (monthly); *Willing Water* (semimonthly bulletin, for members and public libraries only); books, pamphlets, manuals, standards. A list of publications and a bibliography entitled *The Water Supply Library* are available on request.

INFORMATION SERVICES: Answers brief inquiries; makes referrals to consultants, usually Association members; permits onsite use of collection; collects and publishes statistical data on water resources, management of public water utilities, water treatment, and water distribution.

THE AMERICAN WATERWAYS OPERATORS, INC.

0256 1250 Connecticut Ave. NW.
Washington, D.C. 20036
Tel: (202) 296-0320

AREAS OF INTEREST: Transportation on the 25,380 miles of commercially navigable waterways of the United States provided by towboats, tugboats, barges, and shallow-draft, self-propelled freighters and tankers; ocean barging.

HOLDINGS: Project records, photos, films, maps, reports, newsletters, pamphlets, clippings.

PUBLICATIONS: Weekly newsletter, pamphlets, waterway maps.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; lends materials.

AMERICAN WELDING SOCIETY

Technical Department

0257 American Welding Society
345 East 47th St.
New York, N.Y. 10017
Tel: (212) 752-6800

AREAS OF INTEREST: Welding; soldering; brazing; metallizing; resistance welding; field welding of storage tanks and steel water pipe joints; automotive and railway welding; piping and tubing; filler metal; safety recommendations; methods of inspection; standard qualification procedures; building codes; welded bridges; marine construction; symbols, definitions, and charts; equipment and supplies; training and education.

HOLDINGS: Books, reports, journals, industrial literature, data, technical correspondence.

PUBLICATIONS: *Welding Journal* (monthly); *Welding Handbook* (annual); bibliographies, special reports, publications of recommended practices, standards, codes, specifications, manuals, state-of-the-art reviews.

INFORMATION SERVICES: Answers inquiries; provides reference services; permits onsite use of literature collection.

AMERICAN WOOD PRESERVERS INSTITUTE

0258 2600 Virginia Ave. NW.
Washington, D.C. 20037
Tel: (202) 338-7410

AREAS OF INTEREST: All products and services of the wood preserving industry. The Institute is the consulting and educational arm of the wood preserving industry, its primary function being to cooperate with professional engineers, architects, designers, contractors, builders, and Government agencies in an effort to help people make the best use of pressure treated wood, including poles, piles, crossties, lumber, plywood, and fire retardant treated wood products.

HOLDINGS: 500 books; 100 periodical titles; 4 motion pictures; 300 slides; technical reports, standards, specifications, newsletters, reprints of articles appearing in *Wood Preserving* magazine, bibliographies, pamphlets, publication lists.

PUBLICATIONS: *Wood Preserving* (monthly magazine); *For Your Information* (monthly, distributed to company members); standards, specifications, booklets, reports.

INFORMATION SERVICES: Answers inquiries; provides reference and consulting services; makes referrals; lends materials; distributes publications. A fee may be charged for some services and publications, depending on the extent of the service required and the use to which the information will be put.

AMES RESEARCH CENTER LIBRARY

see National Aeronautics and Space Administration. Office of Advanced Research and Technology

AMPEX CORP.

Technical Information Services

0259 Technical Library
Ampex Corp.
401 Broadway
Redwood City, Calif. 94063
Tel: (415) 367-3368

AREAS OF INTEREST: Magnetic recording and magnetic tape; nonmagnetic recording; electron beam recording; electronics; sound; core memory systems; physics; chemistry; information handling and systems; management and administration.

HOLDINGS: 22,500 books; 600 current journals; 60,000 reports; 7,000 abstracts of technical articles on magnetic recording.

PUBLICATIONS: *Technical Information Services Bulletins.*

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans; permits onsite reference.

ANODYNE, INC.

0260 1270 Northwest 165th St.
North Miami Beach, Fla. 33169
Tel: (305) 621-3641

AREAS OF INTEREST: Aluminum anodizing techniques; color anodizing aluminum; anodized foil; nameplates (silk screened, lithographed, etched, reversed etch, direct etch, deep etch, photoetch, photoengraved, embossed, debossed, chemical engraved, mylar, vinyl); multicolor anodized coil; color anodized photosensitive aluminum.

HOLDINGS: Books, periodicals, abstracts, indexes, newsletters, pamphlets, reports, standards and specifications, reviews, reprints, publication lists, press releases, paper tapes, data.

PUBLICATIONS: Catalogs.

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes referrals; permits onsite use of literature collection.

ANTIQUE AUTOMOBILE CLUB OF AMERICA, INC.

0261 West Derry Rd.
Hershey, Pa. 17033
Tel: (717) 534-1910

AREAS OF INTEREST: History, technology, preservation, and maintenance of antique automobiles.

HOLDINGS: 3,500 periodicals; 105 films; 1,200 photos; 2,100 newsletters; 280 reprints; magnetic tape, brochures.

PUBLICATIONS: *The Antique Automobile* (bimonthly).

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes referrals; permits onsite reference; lends films and periodicals.

APPALACHIAN REGIONAL COMMISSION

0262 1666 Connecticut Ave. NW.
Washington, D.C. 20235
Tel: (202) 967-4103

AREAS OF INTEREST: Highway and airport construction; public health; primary, secondary, higher, and vocational education; libraries; housing; sewage treatment works; watershed improvement; water resources; conservation; erosion control; acid mine drainage prevention and other water pollution control; flood control; timber development; supplementing Federal grant-in-aid programs.

HOLDINGS: Regional and State development plans; references on regional development; data.

PUBLICATIONS: *Appalachia* (monthly); *Data Book*; *Code Book*; pamphlets, reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides technical assistance and consulting services to the Appalachian States.

APPAREL RESEARCH FOUNDATION, INC.

0263 1120 Connecticut Ave. NW., Suite 823
Washington, D.C. 20036
Tel: (202) 223-2517

AREAS OF INTEREST: Apparel manufacturing processes, methods, equipment, machinery, textiles, and component parts (i.e., zippers, buttons, thread, etc.); apparel quality testing and wear testing.

HOLDINGS: Small collection of periodicals and reports.

PUBLICATIONS: *The Journal of the Apparel Research Foundation, Inc.* (quarterly); reports, pamphlets, brochures, film, directory.

INFORMATION SERVICES: Answers inquiries; provides reference services; makes referrals.

APPLIED POLYTECHNIC RESEARCH CORP.

0264 P.O. Box 1466
Annapolis, Md. 21401

Location:

62 West St.
Annapolis, Md.
Tel: (301) 263-2618

AREAS OF INTEREST: Physics; fluid dynamics; thermodynamics; nuclear physics; heat transmission; kinematics; electricity; chemistry; strength of materials.

HOLDINGS: Technical reports, standards and specifications, reviews, periodicals, catalogs.

PUBLICATIONS: Technical reports, pamphlets.

INFORMATION SERVICES: Answers inquiries; provides consulting services for fee; permits onsite use of literature collection.

ARCHITECTURAL AND ENGINEERING DEVELOPMENT INFORMATION CENTER FOR CIVIL DEFENSE

see University of Florida

ARCHITECTURAL PHOTOGRAPHERS ASSOCIATION

0265 222 East 46th St.
New York, N.Y. 10017
Tel: (212) 697-6527

AREAS OF INTEREST: Architectural photography.

HOLDINGS: Photos.

PUBLICATIONS: Membership directory; newsletter (for members only).

INFORMATION SERVICES: Answers brief inquiries.

ARCHITECTURAL WOODWORK INSTITUTE

0266 5055 South Chesterfield Rd.
Chesterfield House, Suite A
Arlington, Va. 22206
Tel: (703) 671-9100

AREAS OF INTEREST: Architectural woodwork, including promotion of its use; quality standards, cost estimating systems, and cost accounting for architectural woodwork firms.

HOLDINGS: Books, reports, films, photos, data; published courses in cost estimating, detailing, and billing.

PUBLICATIONS: *Architectural Woodwork Quality Standards "Illustrated"*; *Guide to Wood Species Selection*; *Millwork Cost Book* for millwork estimating; *Cost Accounting Manual for Architectural Woodwork Concerns*; *Flush Doors*; *Cabinets-General*; *Wardrobes for Residence Halls*; *5 Contemporary Wood Window Con-*

cepts; *Architectural Casework Details*; *Artistry in Wood* series of unique woodwork installations; brochures.

INFORMATION SERVICES: Provides reference and document services free to members, architects, engineers, and specification writers; lends materials to responsible researchers for reference and study.

ARCO CHEMICAL CO.

Research and Development Library

0267 ARCO Chemical Co.
500 South Ridgeway Ave.
Glenolden, Pa. 19036
Tel: (215) 586-4700

ARCO Chemical Co. is a division of Atlantic Richfield Co.

AREAS OF INTEREST: Petroleum refining; petrochemical manufacture.

HOLDINGS: 12,500 books; 392 journal titles; reports, patents.

INFORMATION SERVICES: Makes interlibrary loans of nonconfidential material.

ARCTIC, DESERT, TROPIC INFORMATION CENTER

see Air Force, Department of the

ARCTIC INSTITUTE OF NORTH AMERICA

Arctic Bibliography Project

0268 Arctic Institute of North America
1619 New Hampshire Ave. NW.
Washington, D.C. 20009
Tel: (202) 667-1716

Sponsored jointly by several American and Canadian Government agencies, the Arctic Bibliography Project searches, abstracts, and indexes world literature in all fields pertaining to arctic and subarctic regions. Russian sources account for almost half of the material covered.

AREAS OF INTEREST: All subjects pertaining to arctic and subarctic regions, including related disciplines in the physical and life sciences; glaciology; anthropological and sociological studies of the indigenous populations; economic studies of underdeveloped areas; conservation and exploitation of natural resources.

PUBLICATIONS: *Arctic Bibliography* (annual).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services without charge or for a fee, depending on the time required.

ARECIBO OBSERVATORY

see Cornell University

ARGONNE NATIONAL LABORATORY

0269 9700 South Cass Ave.
Argonne, Ill. 60439
Tel: (312) 739-7711

The Argonne National Laboratory, operated by the University of Chicago and the Argonne Universities Association for the U.S. Atomic Energy Commission (AEC), conducts basic scientific research. It is also concerned with research and development related to nuclear reactors.

AREAS OF INTEREST: Physical and biological sciences; mathematics; nuclear reactors and related technology.

HOLDINGS: The library, consisting of a Central Library with eight subject-oriented branches, has an extensive collection of scientific and technical journals and books, along with a virtually complete collection of AEC unclassified reports.

INFORMATION SERVICES: The *Library Services Department* (Ext. 3026) provides broad-scope library and technical information services to the Laboratory staff. The Central Library handles all technical processing, interlibrary loans, and contacts with outside libraries. Visitors may use the libraries during normal working hours. The publication "Additions to the Library" is available on a limited basis to Government libraries. The library has a small collection of computer programs for library purposes, since many library functions are mechanized. The *Information Services Department* (Ext. 3731) answers inquiries, handles public information functions, directs a technical exhibit program, a lecture service, and an Argonne tour service, and distributes educational literature to student requesters. The *Office for Educational Affairs* (Ext. 2211) assists colleges and universities with regard to education in nuclear science, engineering, and related fields, assists in arranging research participation appointments for faculty members, postdoctorals, and graduate and advanced undergraduate students, maintains instructional laboratories available for use by faculty members and their students, provides educational materials, and arranges special lectures and demonstrations.

Argonne Code Center

0270 Argonne National Laboratory
9700 South Cass Ave.
Argonne, Ill. 60439
Tel: (312) 739-7711 Ext. 4365 or 4366

AREAS OF INTEREST: [I.] Digital computer programs for problem-solving in nuclear physics, reactor design, engineering, and operation, cataloged in the following areas: cross-section and resonance-integral calculations; spectrum calculations, generation of group constants, and lattice and cell problems; static design studies; depletion, fuel management, cost analysis, and reactor economics; space-independent kinetics; space-time kinetics, coupled neutronics-hydrodynamics-thermodynamics, and excursion simulations; radiological safety and hazard and accident analysis; steady-state and transient heat transfer; deformation and stress distribution computations, structural analysis, and engineering design studies; gamma heating and shield design programs; total systems analysis; data preparation; data management; subsidiary calculations; experimental data processing; general mathematical and computing system routines; and nuclear data. [II.] Computer program documentation standards and programming practice guideline development to facilitate program interchange.

HOLDINGS: 391 program packages and 120 ENEA (European Nuclear Energy Agency) program packages containing source decks, object decks, sample problems, and documentation and/or data libraries required to make the program usable at another installation.

PUBLICATIONS: Compilations of program abstracts describing each computer program currently available in the Center library (ANL-7411); a collection of benchmark problems prepared by the Mathematics and Computation Division of the American Nuclear Society (ANL-7416); a directory of cooperating installations (ANL-7497); bibliographies of relevant computer programs (ANL-7684).

INFORMATION SERVICES: Answers technical inquiries; provides advisory services; provides AEC and ENEA program package material to Government agencies, Government contractors, research and educational institutions, and industry.

ARIZONA AGRICULTURAL EXPERIMENT STATION

see University of Arizona

ARIZONA BUREAU OF MINES

see University of Arizona

ARIZONA DEPARTMENT OF AERONAUTICS

0271 3000 Sky Harbor Blvd.
Phoenix, Ariz. 85034
Tel: (602) 275-7531

AREAS OF INTEREST: Aeronautics; rules and regulations for aviation safety; airport development; construction and development of airport terminals and related navigational facilities; development and maintenance of an Airport Master Plan; development of plans for an intercontinental airport; development and fostering of aviation; uniform aviation legislation; airline service and administration; general service to airmen; air traffic control; search and rescue; financial grants for the construction, development, and improvement of municipally-owned airports; licensing and taxation of all aircraft as well as the licensing of all commercial flight operations; aerospace education in the public school systems of Arizona.

HOLDINGS: Reports, maps, charts, data.

PUBLICATIONS: *Arizona Aviation* (monthly); *Aviation Directory* (annual); *Aeronautical Chart* (annual); maps.

INFORMATION SERVICES: Answers inquiries as time permits.

ARIZONA DEPARTMENT OF HEALTH

Environmental Health Services

0272 Arizona Department of Health
4019 North 33d Ave.
Hayden Plaza West
Phoenix, Ariz. 85017
Tel: (602) 271-5457

AREAS OF INTEREST: Food and milk sanitation; water quality; sewage; swimming pools; water pollution control; insect control; solid waste; air pollution.

HOLDINGS: 1,000 journals; 2,000 project records of water and sewage plants; 100,000 water sample analyses data; 400 slides of water-sewage treatment plants; abstracts; indexes.

PUBLICATIONS: Bulletins of water-quality reports; engineering bulletins on design, construction, and operation of water-sewage treatment facilities.

INFORMATION SERVICES: Answers brief inquiries; prepares bibliographies on request; provides literature-searching services; makes referrals; provides consulting services to professional engineers and county health departments; provides bacteriological and chemical analyses of public water supplies and public sewer systems.

ARIZONA STATE UNIVERSITY

Nininger Meteorite Collection

0273 Arizona State University
Tempe, Ariz. 85281
Tel: (602) 965-3576

AREAS OF INTEREST: Meteorites.

HOLDINGS: Meteorite specimens; small working collection of reports and papers.

PUBLICATIONS: Data handbook describing collection; report series; conference proceedings.

INFORMATION SERVICES: Answers inquiries; provides consulting services; supplies qualified researchers with meteorite materials.

University Library

0274 Arizona State University
Tempe, Ariz. 85281
Tel: (602) 961-3415

AREAS OF INTEREST: Chemistry (analytical, biochemistry, geochemistry, inorganic, organic, physical); mathematics (analysis, applied mathematics, probability, topology, algebra, mathematical statistics, mathematical logic); physics (nuclear, solid state, polymer, elementary particles, low temperature, electron microscopy); geology (mineralogy, geomorphology, meteorite studies, petrology); engineering, including mechanical (thermosciences, measurements, design, nuclear, aerospace), electrical (computers, solid state electronics, electromagnetic fields and waves, electrical networks, energy conversion and transmission, instrumentation, communications and radar, control systems and medical electronics), chemical (chemical processes, biomedical, nuclear processes, material science), civil (structures, hydraulic, transportation, environmental, soil mechanics, materials), engineering mechanics (fluid mechanics, materials science, dynamics and space mechanics, solid mechanics, vibration and wave propagation), industrial organizational control (computer science, industrial statistics, operations research and system analysis, human factors, industrial systems and production control), bioengineering, and industrial design and technology; biology, including botany (physiology of lower plants, morphology, paleobotany, palynology, plant growth and reproduction, mycology, plant pathology, ecology, biosystematics, phycology), zoology (aquatic biology, desert animals, cytology and histology, ecology, entomology, genetics and evolution, herpetology, ichthyology, invertebrate zoology, mammalogy, parasitology, physiology, venomology, wildlife management), and microbiology (systematic bacteriology, immunology, virology, phycology, electron microscopy); agriculture (agricultural economics, animal science, plant science).

HOLDINGS: Over 1.1 million volumes (includes all subjects); over 300,000 microforms; over 16,000 maps; over 2,400 current journals in all fields of science; a unique collection of books, serials, and other types of literature on solar energy donated by the Solar Energy Society (the collection is being processed and will be available to users). The Library is a depository for U.S. Government publications.

PUBLICATIONS: *Know Your Library* series; *Guide for Engineering Students*; *Science Reference Newsletter* (8 times during school year).

INFORMATION SERVICES: Library services are primarily for faculty and students of the University, but, when possible, the Library also provides services to the public, including reference and bibliographic assistance, direct and interlibrary loans, duplication services (for fee), and referral services.

ARIZONA WATER AND POLLUTION CONTROL ASSOCIATION

0275 c/o Mr. Frank E. Brooks, Secretary-
Treasurer
P.O. Box 5615
Tucson, Ariz. 85703

AREAS OF INTEREST: Design and operation of water and pollution control utility systems; water treatment, disposal, transmission, and distribution; financing of utility systems; public relations; training and testing program for the certification of water plant operators.

HOLDINGS: A small collection of research data, tapes, films, photos, slides, maps, charts, reports, reprints, pamphlets.

INFORMATION SERVICES: Answers technical inquiries; provides short lists of literature citations; makes referrals. Services are primarily for members.

ARKANSAS AGRICULTURAL EXPERIMENT STATION

0276 University of Arkansas
Fayetteville, Ark. 72701
Tel: (501) 575-2253

AREAS OF INTEREST: General agriculture; agricultural economics; entomology; rural sociology; home economics; agricultural engineering; horticulture; forestry; animal sciences; veterinary science; agronomy; plant pathology; poultry industry; pesticides.

HOLDINGS: Reports, data.

PUBLICATIONS: *Arkansas Farm Research* (bimonthly); technical reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; makes interlibrary loans; permits onsite use of collection.

ARKANSAS GEOLOGICAL COMMISSION

0277 State Capitol
Little Rock, Ark. 72201
Tel: (501) 375-4646

AREAS OF INTEREST: Geology and hydrology of Arkansas; water quality; stream gaging; ground water.

HOLDINGS: Books, reports issued by the U.S. Geological Survey, maps, a small collection of water well samples.

PUBLICATIONS: *Water Resources Circulars* (irregular); *Water Resources Summaries* (irregular); *Preliminary Water Studies*.

INFORMATION SERVICES: Answers inquiries; provides limited consulting services to municipalities; permits onsite use of collection.

ARKANSAS OIL AND GAS COMMISSION

0278 314 East Oak St.
El Dorado, Ark. 71730
Tel: (501) 862-4965

AREAS OF INTEREST: Rules and regulations of the Commission; production of oil and gas; well records.

HOLDINGS: Small collection of reports and periodicals.

PUBLICATIONS: *Statistical Bulletin* (monthly); *Annual Oil and Gas Report*.

INFORMATION SERVICES: Answers inquiries.

ARKANSAS POLLUTION CONTROL COMMISSION

0279 1100 Harrington Ave.
Little Rock, Ark. 72202
Tel: (501) 371-1701

AREAS OF INTEREST: Air and water pollution; drainage; municipal and industrial waste treatment; industrial water treatment; river and stream basin surveys; water quality; water analysis; insecticides; air contaminants; solid waste disposal.

HOLDINGS: 600 technical reports; 150 books; 400 periodicals; 175 project records; 1,200 slides; 5 films; 10,000 water and waste water samples; plankton, benthos, and bacterial specimens; standards and specifications, data.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides technical information; permits onsite reference; performs chemical, physical, and biological analyses of water; tests the efficiency of waste treatment plants.

ARKANSAS RIVER COMPACT ADMINISTRATION

0280 210 South 5th St.
Lamar, Colo. 81052
Tel: (303) 336-2422

AREAS OF INTEREST: Water rights; storage, flow, and diversion of water in the Arkansas River Basin in Colorado and Kansas.

PUBLICATIONS: Annual report containing data on daily discharges from the Arkansas and Purgatoire Rivers, the daily content of reservoirs, outflow from reservoirs, water demands by Colorado and Kansas, and diversion of flow by ditches.

INFORMATION SERVICES: Disseminates annual report on request. All meetings of the Administration except executive sessions are open to the public.

ARKANSAS SOIL AND WATER CONSERVATION COMMISSION

0281 State Capitol
Little Rock, Ark. 72201
Tel: (501) 371-1611

AREAS OF INTEREST: Soil and water conservation; administration of soil and water conservation districts; flood control; water and related land resources planning; State and Federal laws dealing with water utilization and water rights; collection and analysis of basic data on water availability, quality, and use.

PUBLICATIONS: Technical and informative booklets on Arkansas water resources.

INFORMATION SERVICES: Answers inquiries.

ARKANSAS STATE HIGHWAY DEPARTMENT

Planning and Research Division

Economics Section

0282 Planning and Research Division
Arkansas State Highway Department
P.O. Box 2261
Little Rock, Ark. 72203

Location:

FAI Route I-30 at Mabelvale Interchange
Little Rock, Ark.
Tel: (501) 569-2428

AREAS OF INTEREST: Transportation economics, primarily relating to highway, road, and street transport and planning therefor; fiscal resources for public facilities for public and private motor vehicular transportation; highway, road, and street engineering; traffic engineering; all highway, road, and street use in Arkansas.

HOLDINGS: Extensive files on use of Arkansas highways, roads, and streets; complete file of historic highway, road, and street maps of Arkansas; small collection of books; periodicals, and reports.

PUBLICATIONS: Annual and biennial reports on Arkansas highway, road, and street affairs; biennial report on motor vehicle and traffic laws and regulations; intermittent reports on many highway-related subjects involving fiscal and socioeconomic studies, surveys, evaluations, critical analyses, etc.

INFORMATION SERVICES: Answers inquiries; provides consulting and duplication services to governmental and quasi-governmental agencies and organized citizen groups; provides maps at cost.

ARKANSAS STATE MINE INSPECTION DEPARTMENT

0283 505 First National Bank Bldg.
Fort Smith, Ark. 72901
Tel: (501) 783-7618

AREAS OF INTEREST: Coal mining and mining safety in Arkansas.

HOLDINGS: Reports, data.

PUBLICATIONS: Annual report.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

ARKANSAS WATER POLLUTION CONTROL ASSOCIATION

0284 College of Engineering
University of Arkansas
Fayetteville, Ark. 72701
Tel: (501) 575-4955

AREAS OF INTEREST: Water works; sewage treatment plants; analysis of water and sewage; water pollution in Arkansas.

HOLDINGS: Complete files of conference proceedings.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference.

ARKANSAS-WHITE-RED BASINS INTER-AGENCY COMMITTEE

0285 State Conservationist, USDA
5401 Federal Office Bldg.
Little Rock, Ark. 72201
Tel: (501) 372-5444

This Committee represents the Departments of Agriculture, Army, Commerce, Health, Education, and Welfare, Interior, Labor, Housing and Urban Development, and Transportation, and the Federal Power Commission as Federal members, and the eight States: Arkansas, Colorado, Kansas, Louisiana, Missouri, New Mexico, Oklahoma, and Texas.

AREAS OF INTEREST: Water and related land resources construction and development projects.

PUBLICATIONS: Reports; minutes of Committee meetings.

INFORMATION SERVICES: Answers inquiries; makes referrals.

ARLYN RESEARCH INSTITUTE, INC.

0286 P.O. Box 600
Claremont, Calif. 91711

Location:

329 Cedarview Dr.
Claremont, Calif.

Tel: (714) 593-5483

AREAS OF INTEREST: Physical sciences; rocketry; combustion; fluid dynamics; chemical kinetics; propellant properties; spray atomization; underwater technology; water recovery; social sciences; mental telepathy; labor relations; crime statistics; employment wages.

HOLDINGS: 2,000 reports; 1,000 periodicals; 2,000 abstracts and indexes; 150 preprints and reprints; 2,000 pamphlets; books, reviews, bibliographies, graphs, tables, data.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting, bibliographic, and duplication services for fee; permits onsite use of literature collection.

ARMCO STEEL CORP.

Advanced Materials Division

Baltimore Research Library

0287 Armco Steel Corp.
P.O. Box 1697
Baltimore, Md. 21203
Tel: (301) 732-5400 Ext. 358

AREAS OF INTEREST: Stainless steels, titanium and titanium alloys, and high-temperature alloys, including alloy development, melting (electric-arc, vacuum melting, vacuum degassing), processing, mechanical and physical properties, welding and fabricating, machining (chip-forming, chemical, electrochemical), corrosion behavior, and high-temperature and cryogenic behavior.

HOLDINGS: 4,200 books; 85 periodicals; DDC, NASA, AEC, etc. reports (hard copy and microfiche); U.S. and foreign patents; company research reports.

PUBLICATIONS: Abstract bulletin, news summary.

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans.

ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE LIBRARY

see Defense, Department of

ARMED SERVICES EXPLOSIVES SAFETY BOARD

see Defense, Department of

ARMOUR INDUSTRIAL CHEMICAL CO.

McCook Research Laboratories Library

0288 Armour Industrial Chemical Co.
8401 West 47th St.
McCook, Ill. 60525
Tel: (312) 242-2750

AREAS OF INTEREST: Fatty nitrogen chemistry; organic chemistry; agricultural chemistry; entomology; bacteriology.

HOLDINGS: 2,300 books; 5,000 bound journals; 140 current periodical titles; 3,500 reports; 3,300 patents; films, photos, data.

PUBLICATIONS: Accessions list, state-of-the-art review, bibliography, translations.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans of nonproprietary materials.

ARMOUR LEATHER CO. LIBRARY

0289 1113 Maryland Ave.
Sheboygan, Wis. 53081
Tel: (414) 457-5511

AREAS OF INTEREST: Industrial biochemistry; leather chemistry.

HOLDINGS: Books, periodicals, reports, patents.

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Provides reference services; permits onsite use of collection.

ARMY, DEPARTMENT OF THE

Army Board for Aviation Accident Research

0290 Fort Rucker, Ala. 36360
Tel: (205) 255-3410

AREAS OF INTEREST: Worldwide Army aviation accidents, aviation safety, and related experiences; aircraft accident cause factors and accident prevention; improvements in aviation materiel, operations, supervision, personnel, and training.

HOLDINGS: Army aircraft accidents reports (safeguarded information not available for release); a library of books, reports, periodicals, vertical files, films, and slides in the subject area of aeronautics, with concentration on aircraft accident prevention, aeronautical engineering, aviation medicine, aviation psychology, flight operations, flight training, crash injury, aircraft accident investigation, survival, etc.

PUBLICATIONS: Weekly and monthly aircraft accident summaries; aviation safety posters, Army training films, studies to promote aviation safety.

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans of some library materials; gives presentations on the subject of aircraft accident prevention.

Army Combat Developments Command

Transportation Agency

0291 U.S. Army Combat Developments Command
Fort Eustis, Va. 23604
Tel: (703) 878-2680

AREAS OF INTEREST: Military (Army) transportation, including terminals, concepts, doctrine, organization, movement management, operation research, systems analysis, qualitative analysis, cost analysis, equipment testing, and materiel requirements; amphibious vehicles, general purpose vehicles, special purpose vehicles, trailers, harbor craft, air cushion vehicles, landing craft, vessels, transport aircraft, and railway equipment.

HOLDINGS: 100 technical reports, of which 50 percent are classified; 50 studies, of which 25 percent are classified.

INFORMATION SERVICES: Answers inquiries; makes referrals; makes interlibrary loans. Services are provided subject to facility and manpower limitations and are available to Department of Defense and other Government agencies, and to authorized and qualified contractors, grantees, bidders, and educational institutions. Requests should be made in writing.

Army Computer Systems Command

0292 ATTN: CSCTM-TS
Fort Belvoir, Va. 22060
Tel: (703) 664-2017

AREAS OF INTEREST: Computer hardware and software, design, program, test, installation, and training; United States and foreign communications and computer sciences and technology; automatic data processing standards, glossary of terms, codes, and data elements; simulation of computer systems; design and programming of computerized logistical, transportation, financial and personnel management, and military tactical systems; ADP hardware, software, and communications research programs.

HOLDINGS: Technical publications, periodicals, technical ADP standards publications, documentation standards, publications, reference material, and Systems Reference Libraries from various computer manufacturers.

PUBLICATIONS: Reports on Army Multicommand ADP Systems analysis, functional design specifications, and implementation plans.

INFORMATION SERVICES: Answers inquiries; makes reports available to authorized Government agencies only.

Army Library

0293 The Pentagon, Room 1A518
Washington, D.C. 20310
Tel: (202) 697-4301

AREAS OF INTEREST: Military art and science; history; geography; languages; political science; foreign affairs; international law; science and technology; civil defense; military law; Army studies.

HOLDINGS: About 280,000 bound volumes, 750,000 documents, and 2,200 periodical titles; special collections of Army studies, military documents, military law, and military unit histories; theses prepared by Army officers assigned to civilian colleges and universities. The Library receives over 400 foreign language journals, primarily in the field of military art and science.

PUBLICATIONS: Bibliographies.

INFORMATION SERVICES: Makes interlibrary loans. The Library is open to the public in nonrestricted areas; materials with security classification are available only to properly authorized persons.

Army Materiel Command

Army Ballistic Research Laboratory

0294 Aberdeen Proving Ground, Md. 21005
Tel: (301) 278-4605

AREAS OF INTEREST: Weapons technology; ballistics and the related sciences of physics, mathematics, chemistry, engineering, and biophysics; upper atmosphere physics; continuum mechanics; solid mechanics; magnetohydrodynamics; quantum electronics; solid state physics; nuclear physics; chemical kinetics; mathematical methods; radiation emission and reflection characteristics of military equipment and personnel; effects of environment on means of detection and identification; criteria for weapons guidance and homing techniques; theory of measurements; fluid dynamics; mechanics of flight; shock formation; supersonic and hypersonic flight; drag; stability; dispersions of bombs, shells, and other missiles; physics of detonation; propagation of intense stress waves in fluids and solids; effects of stress waves on propagating media; impact, penetration, shock propagation, and associated target damage mechanisms; explosive warhead mechanisms; effects of intense nuclear and electromagnetic radiation on materiel; computer techniques; tables of aiming data for artillery and free rockets; data processing and control; test data analysis and reduction; information retrieval systems; statistics; probability; mathematical/numerical analysis; combustion; propellant chemistry; physics and mechanics of propulsion systems; systems engineering.

HOLDINGS: About 7,500 technical reports, 16,500 bound volumes, and 700 scientific and technical journals; research data.

PUBLICATIONS: The Laboratory publishes about 150 technical reports on research results annually; contractors to the Laboratory publish an additional 20 reports annually. Most of the publications are entered in the holdings of the Defense Documentation Center.

INFORMATION SERVICES: The Laboratory provides information services to various elements of the Department of the Army, the Department of Defense, other Government agencies, and, in some cases, to non-Government organizations.

Facilities include aerodynamic ranges, a fast pulse nuclear reactor, lasers, shock tubes, explosive testing chambers, special purpose high-speed digital computers, and supersonic and hypersonic wind tunnels.

Army Electronics Command

ARMY SIGNAL CORPS MUSEUM

0295 Myer Hall
Fort Monmouth, N.J. 07703
Tel: (201) 532-2445 or 532-1962

AREAS OF INTEREST: History of military communications, with emphasis on the U.S. Army Signal Corps.

HOLDINGS: 16,200 communication instruments and devices; 32,000 maps, charts, and historical documents; 5,500 photos; 3,200 books; 3,200 uniform items and insignia; 360 historical flags; 8,000 pamphlets.

INFORMATION SERVICES: Answers inquiries; lends reproductions of photos, documents, etc.; permits onsite reference.

METEOROLOGICAL SUPPORT ACTIVITY

0296 U.S. Army Electronics Command
Meteorological Support Activity ATTN:
SELHU-C
Fort Huachuca, Ariz. 85613
Tel: (602) 538-2322

AREAS OF INTEREST: Synoptic meteorology; meteorological instrumentation and calibration; climatology; micrometeorology; atmospheric physics; electronics; computer programming; electricity; mechanics; physics and electronic engineering; meteorological observations and weather forecasts; reduction and quality control of meteorological data; air pollution.

PUBLICATIONS: Annual reports entitled *Meteorological Support to US Army RDT&E Activities* (from 1956); Meteorological Team Data booklets consisting of meteorological data taken by U. S. Army Meteorological Teams located throughout continental United States, in Alaska, and the Panama Canal Zone (20 per month); Climate Calendars for selected Army installations.

INFORMATION SERVICES: Provides professional meteorological consulting and informational services to Army research, development, test, and evaluation activities and other Government agencies. Requests for all services should be made in writing. Services are provided subject to manpower limitations. Meteorological data processed in booklet form may be obtained from the National Weather Records Center, Federal Bldg., Asheville, N.C. 28801. Copies of annual reports may be obtained from the Defense Documentation Center, Cameron Station, Alexandria, Va. 22314.

Facilities include a Calibration Laboratory equipped for inspecting, repairing, testing, and calibrating electronic, electromechanical, and clock-driven meteorological instruments used by Army Meteorological Teams, and pressure and humidity chambers for testing equipments.

TECHNICAL DATA, CATALOGING, AND STANDARDIZATION DIRECTORATE

0297 U.S. Army Electronics Command
Fort Monmouth, N.J. 07703
Tel: (201) 535-2160

AREAS OF INTEREST: Acoustics; automatic data processing equipment; aerospace electronics; antennas; atmospheric physics; batteries; communications centers and systems; computers; countermeasures; cryogenics; crystallography; detection systems; display and storage devices; electromagnetic vulnerability; electronic components and materials; electronics; electron tubes; electro-optics; energy conversion; facsimile; frequency control; fuel cells; geomagnetics; geophysics; information theory; infrared devices; integrated circuits; ionospheric research; lasers and masers; luminescence; magnetism; mathematics; meteorology; microelectronics; microwave devices; navigation techniques; night vision techniques; nuclear physics; operations research; optics, photography; photo-optics; plasma physics; power sources; propagation; public address equipment; radar; radiac equipment; radiation effects; radio direction finders; radio equipment; seismic propagation; sensors; solid state physics; sound ranging equipment; surveillance techniques; superconductivity; telemetry; telephone equipment; teletypewriters; thin film; wire and cables.

HOLDINGS: 45,000 books; 22,000 bound volumes of journals; 6,000 pamphlets and booklets; 28,000 reports; 10,000 standards and specifications; 60,000 photos; 1,800 abstracts; 500 bibliographies; 400 state-of-the-art reports; 6 technical motion pictures.

PUBLICATIONS: Bibliographies, including *Bibliography of ECOM Publications and Presentations* (annual); reports, pamphlets, specifications, state-of-the-art reviews, monographs, abstracts, press releases.

INFORMATION SERVICES: Answers inquiries; makes referrals. Collections are accessible for onsite use by other Government agencies and the Department of Defense community, including contractors, grantees, and bidders, educational institutions, and private citizens. Requests for services should be made in writing. Services are provided subject to facility and manpower limitations. Requests involving more than a minor level of work will be accomplished on a cost reimbursable basis. Secondary distribution of reports is made by the Defense Documentation Center. Unclassified-unlimited publications are available to the public through the Clearinghouse for Federal Scientific and Technical Information.

Army Materials and Mechanics Research Center

NONDESTRUCTIVE TESTING INFORMATION ANALYSIS CENTER

0298 Army Materials and Mechanics Research
Center
Watertown, Mass. 02172
Tel: (617) 926-1900 Ext. 343 or 552

AREAS OF INTEREST: Nondestructive testing by radiography, sonics and ultrasonics, magnetics and electromagnetics, electrical methods, acoustic emission, holography, and other methods.

HOLDINGS: Books, reports, standards and specifications, journals, magazines, abstracts, bibliographies.

PUBLICATIONS: *DoD NDT Newsletter*; *Report Guides to Literature*; abstracts, bibliographies.

INFORMATION SERVICES: Answers inquiries; provides consulting and literature-searching services; permits onsite use of literature collection.

TECHNICAL LIBRARY BRANCH

0299 Army Materials and Mechanics Research
Center
Watertown, Mass. 02172
Tel: (617) 926-1900

AREAS OF INTEREST: Materials research; physical and mechanical metallurgy; structural mechanics; ceramic materials; high-temperature materials, coatings, and surface deterioration phenomena; organic materials; nuclear and solid state physics; methods of analysis (physical, chemical, mechanical, metallurgical); nondestructive testing; prototype materials and materials process engineering for armor, ammunition, artillery, aircraft, missile, and other applications; materials standardization and quality assurance.

HOLDINGS: 24,000 books; 700 periodical titles; 69,000 technical reports.

PUBLICATIONS: Reports, specifications, standards, materials handbooks, quality assurance publications.

INFORMATION SERVICES: Answers inquiries; provides advisory, reference, literature-searching, bibliographic, and loan services, including interlibrary loans. In general, information resources are available to other Government activites on a cooperative basis. Although the library is maintained primarily for the use of Center personnel, reference and interlibrary loan service may be provided to industrial and private libraries on written request.

Army Missile Command

REDSTONE SCIENTIFIC INFORMATION CENTER

0300 U.S. Army Missile Command
Redstone Arsenal, Ala. 35809
Tel: (205) 876-5195

AREAS OF INTEREST: Aeronautics; astronomy and astrophysics; atmospheric sciences; chemistry; electronics and electrical engineering; energy conversion (nonpropulsive); materials; mathematical sciences; mechanical and industrial engineering; methods and equipment; military sciences; missile technology; navigation; communication; detection and countermeasures; nuclear science and technology; ordnance; physics; propulsion and fuels; space technology.

HOLDINGS: The Center contains the central collection of scientific information for the Army Missile Command and for NASA's Marshall Space Flight Center. Its holdings consist of approximately 100,000 books and bound volumes of periodicals, 850,000 technical reports, including half a million reels of microfilm, microfiche, and other microforms, and about 3,000 slides, and motion pictures.

PUBLICATIONS: Technical reports, state-of-the-art reviews, bibliographies, announcement bulletins.

INFORMATION SERVICES: Answers inquiries; provides reference, literature-searching, translation, and duplication services; provides information on methods for handling and processing data and information; makes interlibrary loans. Services are available to personnel of the Marshall Space Flight Center and the Army Missile Command and their contractors in the Huntsville area. The library collections are accessible for onsite use by others by special arrangement.

Army Mobility Equipment Command

ARMY MOBILITY EQUIPMENT RESEARCH AND DEVELOPMENT CENTER

Sanitary Sciences Division

0301 U.S. Army Mobility Equipment Research and Development Center
Fort Belvoir, Va. 22060
Tel: (703) 780-1100 Ext. 45359

AREAS OF INTEREST: Ground-water exploitation; well drilling; surface-water treatment; transportable purification processes; desalinization; removal of chemical, biological, and radiological warfare agents from water; sewage collection and disposal: sewage treatment for water reuse.

HOLDINGS: Reports, data.

PUBLICATIONS: Reports (a publications list is available).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides technical assistance when related to military mission.

Facilities include laboratories for chemical, bacteriological, and radiological analyses of water and test facilities for operation and evaluation of water purification processes and equipment. The Division has an AEC license for use of strontium 85 in water.

Technical Information Division

0302 U.S. Army Mobility Equipment Research and Development Center
Fort Belvoir, Va. 22060
Tel: (703) 780-1100 Ext. 45722

AREAS OF INTEREST: Basic and applied research, design development, and engineering of materiel, methods, techniques, and equipment for the areas of: prefabricated buildings; mine warfare; barrier and intrusion detection; physical security; land navigation; rail and small craft transportation; wet-dry bridging; amphibious vehicles; concealment and camouflage; water purification and waste disposal; heating-air conditioning; electric power sources and generation; industrial engines-turbines; earth-moving; materials handling; container transportation system; petroleum-oil-lubricants movement; storage and tanker mooring; and nuclear effects studies.

HOLDINGS: 50,000 technical reports; 200 test reports; 15,000 books; 3,000 bound periodicals; 28,000 unbound periodicals; 700 periodical titles; 3,000 standards; 5,000 commercial catalogs; 1,500 pamphlets; 25,000 Department of the Army publications.

PUBLICATIONS: Accessions lists.

INFORMATION SERVICES: Answers inquiries; makes referrals and interlibrary loans; provides consulting services. Services are provided subject to facility and manpower limitations and are available to Department of Defense and other Government agencies, and to authorized and qualified contractors. Requests for services should be made in writing. Technical reports are made available to qualified requesters through the Defense Documentation Center and the Clearinghouse for Federal Scientific and Technical Information.

Army Munitions Command

MANAGEMENT SYSTEMS AND DATA AUTOMATION DIRECTORATE

Technical Systems Division

0303 Management Systems and Data Automation Directorate
Attn: AMSMU-MT
Hq. U.S. Army Munitions Command
Dover, N.J. 07801
Tel: (201) 328-2284 or 328-2148

AREAS OF INTEREST: Management systems; data automation; information management; scientific and technical information systems; engineering data storage and retrieval; data exchange; computer-assisted design and manufacture.

INFORMATION SERVICES: Answers inquiries; makes referrals. Services are provided free to Government and industrial scientists and engineers.

SCIENTIFIC AND TECHNICAL INFORMATION BRANCH

0304 Picatinny Arsenal, ATTN: SMUPA-RT-S
Dover, N.J. 07801
Tel: (201) 328-2914

AREAS OF INTEREST: Explosives; ammunition; packaging; nuclear weapons; propellants; polymers and plastics; pyrotechnics.

HOLDINGS: 50,000 books; 1,200 periodical titles; 150,000 reports; 70,000 microfiche.

PUBLICATIONS: *Technical Information Bulletin*; reports, bibliographies.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference, literature-searching, translation, and duplication services; makes interlibrary loans. Services are available to Department of Defense, other Government agencies, and to a limited extent, other groups on a selected basis.

TECHNICAL LIBRARY

0305 Technical Support Directorate
U.S. Army Munitions Command
Edgewood Arsenal, Md. 21010
Tel: (301) 676-1000 Ext. 26267 or 21150

AREAS OF INTEREST: Chemical agents and munitions, including flame and incendiary systems; dissemination and dispersion of chemical, flame, and incendiary agents; chemical and biological protective equipment; chemical agent synthesis; medical aspects of chemical agents.

HOLDINGS: 50,000 books; 1,000 current periodical subscriptions; 350,000 reports. The holdings include a collection of World War I documents available nowhere else.

PUBLICATIONS: Accessions list.

INFORMATION SERVICES: Answers inquiries; provides reference, literature-searching, duplication, and translation services; lends materials. Services are available to Department of Defense agencies and all elements of Edgewood Arsenal and their contractors.

TECHNICAL SUPPORT DIRECTORATE

Army Chemical Information and Data System Project

0306 Technical Support Directorate
Edgewood Arsenal, Md. 21010
Tel: (301) 676-1000 Ext. 5207

AREAS OF INTEREST: Chemical structures of toxic compounds; storage of chemical structures with accessible nonstructural information.

HOLDINGS: 260,000 chemical structures on magnetic tapes; reference collection of books, reports, and magazines.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and literature-searching services. Services are available only to organizations that have a working arrangement with the Project, but inquiries regarding participation are solicited.

Army Production Equipment Agency

0307 Rock Island, Ill. 61201
Tel: (309) 794-5010

AREAS OF INTEREST: Manufacturing technology, processes, and equipment; applications to military end item production.

PUBLICATIONS: State-of-the-art reviews of manufacturing processes (published to date: *Explosive (Chemical) Forming*; *Powder Metallurgy*; *Electrochemical and Electrical Discharge Machining*; *Microelectronics*; *Machine Tool Replacement*).

INFORMATION SERVICES: Answers inquiries; provides technical assistance to Army activities and contractors.

Army Satellite Communications Agency

0308 Building 209
Fort Monmouth, N.J. 07703

Tel: (201) 532-1347

AREAS OF INTEREST: Military satellite communications systems, with emphasis on the ground environment.

HOLDINGS: A working collection of books, periodicals, and technical reports.

PUBLICATIONS: Reports, specifications, technical papers.

INFORMATION SERVICES: Answers inquiries; makes referrals and interlibrary loans. General information is available to anyone; classified information is furnished on a need-to-know basis.

Army Tank- Automotive Command

RESEARCH LIBRARY BRANCH (AMSTA-RHFL)

0309 U.S. Army Tank-Automotive Command
Warren, Mich. 48090
Tel: (313) 756-1000 Ext. 35125

AREAS OF INTEREST: Tactical transport vehicles; general purpose vehicles; assigned special equipment vehicles; assigned special purpose vehicles; assigned combat vehicles; vehicle components (such as complete propulsion systems, including engines, transmissions, and running gear); electrical components (such as batteries, generators, regulators, engine starters); special tests and inspection equipment; track and suspension systems; tires; integration of fire direction systems, viewing equipment, terrain, and gun systems; stabilizing systems; electronic viewing and detecting devices; design techniques for assessment of terrain characteristics for vehicle mobility and determination of relationship between man, machine, and terrain; special vehicle test beds to study off-road mobility and other types of operations; automotive vehicles; self-propelled artillery; trailers and semitrailers; cargo vehicles; tracked vehicles; wheeled vehicles; ballistic armor (heavy and light); radiological armor; microbiology; metallurgy; combustion engineering; military engineering; nuclear structures; electronics engineering; human factors engineering; materials engineering; graphic arts; automotive engineering; protective coatings; synthesis; nuclear weapon effects; electronic timers; detectors; warning devices; foreign technology; fungus effects on materials; coatings; rubber; isotopes; combat performance prediction; electromagnetic propagation; fuels; refractory coatings; adhesives; aromatic compounds; elastomers; oils; plastics; alkaline earth metal compounds; boron alloys; carbon compounds (inorganic); pigments; solvents; qualitative analysis; solvent extraction; volumetric analysis; radiography; analytical techniques; tracer; alkali metal compounds; microscopy; dynamic testing and evaluation of complete vehicles and vehicle components (including mechanical, electrical, and materials) under simulated environments of high temperatures (160 degrees F.) and low temperatures (minus 80 degrees F.); soil mechanics; welding techniques (heavy armor); dynamic simulation using computers; acoustics; image intensification; night vision; prevention of deterioration; reliability studies; material properties (metals and nonmetals); mathematical models; high-speed computer techniques; radiation protection; design of experiments; statistical analysis; concept formulation; vehicle signatures (sonic, infrared, seismic); instrumentation (electronic, solid state, mechanical, electrical); diagnostic engineering; thermal effects; vibration effects; nondestructive testing; safety engineering.

HOLDINGS: 50,000 technical reports; 10,500 books; 800 periodical titles; 1,500 bound journals.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, literature-searching, translation, abstracting, and instruction services; lends materials to other agencies. Services are provided subject to facility and manpower limitations and are available to Department of Defense and other Government agencies, and to authorized, qualified contractors, grantees, bidders, educational institutions, and private citizens. Requests for services should be made in writing.

Army Test and Evaluation Command

DESERET TEST CENTER TECHNICAL LIBRARY

0310 Fort Douglas, Utah 84113
Tel: (801) 524-4356

AREAS OF INTEREST: Biological defense; biological weapons systems; biological operations; chemical defense; chemical weapons systems; chemical operations; environmental tests; engineering tests; ecology; epidemiology; safety; agents; aerosols; decontamination; micrometeorology; munitions; ordnance; photographic equipment; bacteria; virus; rickettsia; toxins; pathogens; vapors; contamination; decay rates; microorganisms; climatology; detection; dosage; incapacitating agents; simulants; protective clothing; laboratory equipment; quality assurance; instrument calibration; test technology; CB sampling equipment; assay; persistency; laboratory animals; particulates; biological and chemical field testing.

HOLDINGS: 5,500 technical books; 30,000 technical reports; 260 periodical titles; 5,500 bound volumes of periodicals.

INFORMATION SERVICES: Answers inquiries; makes referrals; makes interlibrary loans; provides consulting, literature-searching, indexing, and duplication (including hard copy reproduction from microfiche and microfilm) services. Services are available to Department of Defense, other Government agencies, qualified contractors, and non-Government organizations on a need-to-know basis.

Army Weapons Command

WATERVLIET ARSENAL

Benet R&E Laboratories

0311 Technical Information Services Office
Watervliet Arsenal
Attn: SWEWV-RDT
Watervliet, N.Y. 12189
Tel: (518) 273-4610 Ext. 5613

AREAS OF INTEREST: Cannons, mortars, and howitzers; antitank and anti-aircraft weapons; recoilless rifles; automatic weapons; aircraft weapon systems; armored reconnaissance weapons; inspection and strain gages; machine tools; nondestructive testing equipment; solid state physics; X-ray diffraction; thermodynamics; gas dynamics; ultra-high pressure alloys; deformation mechanisms; defect behavior; ferrous metals; powdered metals; heat and erosion resistant materials; composite materials; metalforming, cutting, and machining; diffusion; heattreating; surface finishing; casting; plating; welding; shot peening; ultrasonic cleaning processes; radiochemistry applications; packing techniques.

HOLDINGS: 9,000 books; 300 periodical titles; 22,000 reports; vendors catalog microfilm file.

PUBLICATIONS: Reports, directories, abstracts, indexes, specifications, accessions lists.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference, literature-searching, and duplication services; makes interlibrary loans; permits onsite reference by prior arrangement within applicable regulations and procedures.

Aviation Materiel Command

ARMY AVIATION MATERIEL LABORATORIES

0312 Fort Eustis, Va. 23604
Tel: (703) 878-2208 or 878-2000

AREAS OF INTEREST: Subsonic aeronautics, particularly helicopters and other V/STOL aircraft and related fields.

HOLDINGS: Over 7,500 books, 181 periodical titles, 20,000 technical reports, and 10,000 microfiche reports.

PUBLICATIONS: Technical reports, announcement bulletins.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services.

Directorate of Aerobiology and Evaluation Laboratories

0313 Technical Information Division, ATTN:
SMXFD-AE-T
Fort Detrick, Md. 21701
Tel: (301) 663-4111 Ext. 5102 or 3105

AREAS OF INTEREST: Microbiology (aerobiology, bacteriology, immunology, medical mycology, virology); biochemistry; physical chemistry; aerosols (physics); biophysics; mathematics and statistics; veterinary sciences; infectious diseases; epidemiology; pathology; engineering (aerospace, biological, chemical, industrial, mechanical, sanitary); agronomy; plant pathology; plant physiology.

HOLDINGS: 25,000 books; 1,200 periodical titles; 45,000 technical reports; 4,000 laboratory notebooks.

PUBLICATIONS: Technical reports (130 a year); abstracts bulletin (quarterly); accessions list (monthly); annual report; bibliographies, brochures, motion pictures, exhibits.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides technical editing, consulting, reference, literature-searching, abstracting, translation, and duplication services; makes interlibrary loans. Services are available to Government agencies, their contractors, and to a limited extent, the public.

Harry Diamond Laboratories

0314 Scientific and Technical Information Office
Harry Diamond Laboratories
Connecticut Ave. and Van Ness St. NW.
Washington, D.C. 20438
Tel: (202) 696-9711

AREAS OF INTEREST: Fuzes, including proximity fuzes, time fuzes, command fuzing, and effects of nuclear radiation on fuze functions; systems research as it pertains to fuzing, ranging, guidance, and detection of military ordnance; instrumentation; simulation techniques (radar, counter-countermeasures, etc.); electronic and electrical components, materials, and techniques for future military ordnance and advanced weaponry; microminiaturization; effects of radiation on ordnance components and materials; properties of plasmas; nonlinear circuits; lasers; information storage and retrieval methods to meet requirements of scientists and engineers.

HOLDINGS: About 34,000 bound volumes and 90,000 reports.

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Provides information on current research projects on a need-to-know basis; makes interlibrary loans of the Laboratories' own reports when these are not obtainable from the usual report distribution centers.

Human Engineering Laboratories

HUMAN ENGINEERING INFORMATION ANALYSIS SERVICES

0315 Human Engineering Laboratories
USA Aberdeen Research and Development Center
Aberdeen Proving Ground, Md. 21005
Tel: (301) 278-3883

AREAS OF INTEREST: Human factors; human performance; human factors engineering; experimental psychology; physiology; biomechanics; biophysics; biochemistry; biology.

HOLDINGS: A large, highly specialized collection of documents relating to human factors research and engineering.

PUBLICATIONS: *Human Factors Engineering Design Guides* and *Human Factors Engineering Design Standards* to support the development of combat vehicles, wheeled vehicles, communication and electronic systems, and missile systems; comprehensive bibliographies covering the technical literature for the period 1940 to 1966, published in a series of four volumes; special bibliographies on short term memory, vigilance, and reaction time; state-of-the-art reviews.

INFORMATION SERVICES: Provides critical review of data and performs technical analysis of special problems as requested by DoD and various materiel development agencies and their contractors; answers inquiries; provides consulting services and reference assistance in response to specific requests; provides literature-searching services; permits onsite use of files. Services are available to all components of DoD, other Federal agencies, and contractors with certified needs for information in this subject area.

Natick Laboratories

CONTAINER DIVISION

0316 U.S. Army Natick Laboratories
Attn: AMXRE-CD
Natick, Mass. 01762

AREAS OF INTEREST: Preservation, packaging, packing materials, and methods for a wide variety of military supplies.

PUBLICATIONS: Technical reports, standards and specifications.

INFORMATION SERVICES: Answers specific scientific and technical questions pertaining to the field of packaging, provided the questions can be answered from the Division's existing store of knowledge and do not require extensive research or literature search.

TECHNICAL LIBRARY AND SCIENCE INFORMATION CENTER

0317 U.S. Army Natick Laboratories
Kansas St.
Natick, Mass. 01760
Tel: (617) 653-1000 Ext. 2248 or 2542

AREAS OF INTEREST: Chemistry; physics; biology; medicine; physiology; psychology; geography; mathematics; statistics; law; food science and technology; textiles; clothing and personnel equipment.

HOLDINGS: 30,000 books; 1,000 periodical titles; 50,000 reports; abstracts and indexes in depth of literature on specific subject areas such as terrestrial hypoxia, functional performance of clothing and personnel equipment, etc.

PUBLICATIONS: Bibliographies, translations of journal articles.

INFORMATION SERVICES: Answers inquiries; provides reference, literature-searching, and translation services; makes referrals; lend materials. Library services are primarily for Natick Laboratories' personnel, but limited access to open-literature collections is available to others by special arrangement.

Nuclear Defense Laboratory

0318 Edgewood Arsenal, Md. 21010
Tel: (301) 676-1000 Ext. 26248 or 6145

AREAS OF INTEREST: Nuclear weapons effects, including initial and residual nuclear radiation, fallout prediction, thermal phenomena, and radiation measurement techniques and instrumentation; physics and chemistry of radiation; radiological safety, including environmental monitoring, personnel, equipment, and area decontamination, maintenance of radiac equipment, protective clothing, and radioactive waste disposal techniques; nuclear cross-section measurements; irradiation facilities.

HOLDINGS: 4,300 books; 216 periodical titles; 25,000 technical reports.

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides advisory services; supplies gamma irradiations and neutron flux measurements. Services are available to qualified users and those involving more than routine discussions normally require funding.

Plastics Technical Evaluation Center (PLASTEC)

0319 Picatinny Arsenal
Dover, N.J. 07801
Tel: (201) 328-4222

AREAS OF INTEREST: Plastic materials and composites of interest to the Department of Defense, with emphasis on plastics in structural applications (excluding building construction), electrical and electronic applications, packaging, foams, and mechanical goods applications; test methods and specifications; environmental effects; microbiological effects; processing.

HOLDINGS: Books, journals, periodicals, abstracts, indexes, research reports, specifications and standards, technical bulletins, data sheets, proceedings.

PUBLICATIONS: State-of-the-art, reports, indexes, directories, annotated bibliographies.

INFORMATION SERVICES: Distributes technical data and data evaluations to Department of Defense activities, their designees, or other organizations with suitable arrangements; renders technical advice and assistance on plastics, adhesives, and composites to Department of Defense activities and other organizations where appropriate; performs computer searches on demand.

Army Research Office--Durham

Information Processing Office

0320 U.S. Army Research Office
Box CM, Duke Station
Durham, N.C. 27706
Tel: (919) 286-2285

AREAS OF INTEREST: Physics; chemistry; mathematics; engineering sciences; metallurgy; ceramics; information sciences; environmental sciences.

PUBLICATIONS: Report of research progress (annual).

INFORMATION SERVICES: Answers inquiries. Services are available to Federal agencies and Army contractors and grantees.

Scientific Synthesis Office

0321 U.S. Army Research Office--Durham
Box CM, Duke Station
Durham, N.C. 27706
Tel: (919) 286-2285

AREAS OF INTEREST: Ceramics for structural use; lasers; high pressure and temperature processes used to produce new materials; mechanical behavior of materials under dynamic loads; upper atmosphere atomic and plasma physics; corrosion; subsonic aircraft and hovering-type vehicles; aerodynamics of missiles; sensing and identification of objects; hazardous devices and substances; night vision; behavior of composites; brittle fracture; mathematical analysis of nonlinear systems; information sciences.

HOLDINGS: Over 5,000 abstracts.

PUBLICATIONS: *Military Theme Research Review Bulletin* (monthly).

INFORMATION SERVICES: Provides reference, literature-searching, and abstracting and indexing services; makes referrals. Services are available to Army agencies, contractors, and grantees.

Continental Army Command

Army Chemical Center and School

0322 ATTN: ATSCM-A
Fort McClellan, Ala. 36201
Tel: (205) 238-4424

AREAS OF INTEREST: Technical aspects and operational concepts of the employment of, and defense against, nuclear, biological, and chemical weapons, including background information on agents, capabilities, disposal and decontamination procedures, protective measures, and weapons systems and their application in military operations.

INFORMATION SERVICES: Answers inquiries; makes referrals.

FISHER LIBRARY

0323 U.S. Army Chemical Center and School
ATTN: ATSCM-S
Fort McClellan, Ala. 36201
Tel: (205) 238-3314

AREAS OF INTEREST: Physical, biological, and social sciences; history; engineering; chemical and biological operations; radiological defense.

HOLDINGS: 13,424 books; 161 scientific and military periodical titles; 30,682 unclassified documents, including CBR (chemical and biological operations and radiological defense) technical reports and chemical historical reports.

PUBLICATIONS: Bibliographies, bulletins.

INFORMATION SERVICES: Makes interlibrary loans. Other library services are available to special military groups only (with a few exceptions).

Army Engineer School Library

0324 Thayer Hall (Building 270)
Fort Belvoir, Va. 22060
Tel: (703) 664-1318

AREAS OF INTEREST: Civil engineering; history of Corps of Engineers.

HOLDINGS: 23,000 books; 200 periodical titles; 50,000 reports; 38,000 miscellaneous publications; archival and record materials on the history of the Corps of Engineers; early monographs on engineering.

PUBLICATIONS: Bibliographies.

INFORMATION SERVICES: Answers inquiries; provides reference and literature-searching services; makes interlibrary loans. Department of Defense users are given priority; other users are served on a time-available basis.

Army Transportation School Library

0325 Fort Eustis, Va. 23604
Tel: (703) 878-5583

AREAS OF INTEREST: Military transportation; fixed wing aircraft; rotary wing aircraft; air transportability; aircraft maintenance and repair; rail transport; diesel locomotives; motor transportation; military vehicles; terminal and water transport; cargo handling; containerization; navigation; logistics; management; education; transportation movements; traffic management; military history; military science and tactics.

HOLDINGS: 24,327 books; 19,896 technical reports; 48,922 official publications; 1,011 maps; 5,178 bound journals; 262 periodicals; 7,679 photographs; 474 foreign language records; 1,389 reels of microfilm.

PUBLICATIONS: *Transportation Corps Professional Reading List*; accessions list (monthly).

INFORMATION SERVICES: Answers inquiries; provides reference services; makes interlibrary loans. Services are available to Department of Defense and other Government agencies.

Command and General Staff College Library

0326 Fort Leavenworth, Kans. 66027
Tel: (913) 684-4358

AREAS OF INTEREST: Military sciences; business administration; history; biography; World War II; Civil War; Indian wars; political science; management; automatic data processing systems.

HOLDINGS: 93,000 books; 450 periodical titles; 300,000 reports.

PUBLICATIONS: Abstracts, bibliographies.

INFORMATION SERVICES: Answers inquiries; provides reference and literature-searching services; makes interlibrary loans. Services are available to all after needs of staff, faculty, and student officers have been satisfied.

Office of Civil Defense

0327 Office of the Secretary of the Army
The Pentagon
Washington, D.C. 20310
Tel: (202) 697-1054

AREAS OF INTEREST: Fallout shelter research and design (protection from blast, thermal, and fallout effects of nuclear weapons; shelter environment; shelter subsistence; shelter components; shelter management; shelter systems); emergency operations research and design (radiological monitoring systems; communications and warning; fire effects and protection; emergency medical care; emergency operations); postcattack environment research (radiological phenomena, effects and countermeasures; repair and reclamation of damage; post-attack medicine, health, and welfare; recovery and maintenance systems); systems evaluation research (civil defense systems analysis; strategic analysis, vulnerability and requirements; organization and training; planning support, information systems analysis; physical environment studies; social and psychological studies); architectural and engineering development (professional development courses for architects and engineers; technical publications relating to radiation shielding, environmental engineering, and protective construction); professional advisory services to assist architects and engineers in incorporating optimum fallout shelter in the design of new structures and incorporation of fallout shelter in Federal buildings; National Fallout Shelter Survey program; development of technical criteria and guidance on the Federal Emergency Broadcast System, nationwide warning system, and Federal Regional Centers for Emergency Operations; nucleonics (development and procurement of radiological instrumentation and calibrators; technical guidance on the use, maintenance, calibration, stocking of repair parts, and storage and disposal of radiological equipment).

HOLDINGS: Exhibits.

PUBLICATIONS: *Directory of Qualified Fallout Shelter Analysts*; *National Directory of Architectural, Engineering and Consulting Firms with Qualified Fallout Shelter Analysts*; *Suggested Building Code Provisions for Fallout Shelters*; *Shelter Design and Analysis*; *Fallout Radiation Shielding* (TR 20, Vol. 1); *Environmental Engineering for Shelters* (TR 20, Vol. 3); *Protective Factor Estimator with Instructions* (TR 20, Vol. 5); annual report, publications index, motion picture catalog, bibliographic survey of civil defense, research reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; distributes publications; lends exhibits; sponsors training courses for professional architects and engineers in shelter design and analysis and for laymen in a wide range of civil defense activities.

Office of the Chief of Engineers

Army Cold Regions Research and Engineering Laboratory

0328 P.O. Box 282
Hanover, N.H. 03755
Tel: (603) 643-3200

AREAS OF INTEREST: Snow, ice, and frozen ground; materials, facilities, systems, and operations in cold environments; methods and techniques of using various energy forms and systems to obtain information about surface and subsurface features in all environments for engineering, military, and related scientific purposes.

HOLDINGS: 4,000 books; 300 periodical titles; 17,000 reports; over 10,000 other reports on microfilm; a collection of maps on arctic and antarctic regions.

PUBLICATIONS: Technical reports (a publications list is available). The Laboratory also supports the *Bibliography on Cold Regions Science and Technology*, a continuing bibliographic review of worldwide scientific and technical literature and abstract items pertaining to snow, ice, and frozen ground, prepared in the Science and Technology Division of the Library of Congress.

INFORMATION SERVICES: Provides scientific and technical advice to Government agencies and other qualified requesters; makes interlibrary loans.

Army Engineer Waterways Experiment Station

0329 P.O. Box 631
Vicksburg, Miss. 39180

Location:
Halls Ferry Rd.
Vicksburg, Miss.
Tel: (601) 636-3111

AREAS OF INTEREST: Hydraulic model investigations; hydraulic prototype analysis; fluvial hydraulics; water waves; estuaries and tidal action; water pollution; soil mechanics; concrete testing; nuclear weapons effects on structures, terrain, and waterways; mobility and trafficability of military vehicles; effects of environment on military operations; flexible pavements; expedient surfacing; soil stabilization; blast effects on surfaces; soil dynamics; rock mechanics; geology; instrumentation.

HOLDINGS: Extensive holdings of books, journals, reports, pamphlets, periodicals, standards, specifications, microforms, photographs, and motion picture films. The Station library maintains five card catalogs of technical libraries in similar or related fields, supplemented by seven printout catalogs of other libraries.

PUBLICATIONS: Technical reports, reviews, bibliographies, pamphlets. A price list of publications is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; makes interlibrary loans; furnishes translations for Corps of Engineers offices; provides advisory and consulting services in regard to research and testing, which is performed on a reimbursement basis for Federal agencies and, under certain conditions, for State agencies, foreign governments, and industry.

Board of Engineers for Rivers and Harbors

PORT FACILITIES BRANCH

0330 U.S. Army Corps of Engineers
Tempo Bldg. C
2d and Q Sts. SW.
Washington, D.C. 20024
Tel: (202) 697-7408

AREAS OF INTEREST: U.S. harbors, ports, docks, port storage, and other physical facilities; inland waterway transportation and commerce.

HOLDINGS: Books, journals, reports, maps, charts, photos.

PUBLICATIONS: *Port Series* (detailed information on all major and secondary U.S. ports); *Transportation Series* (inland waterway transportation); *Waterborne Commerce of the United States* (inland waterway commerce).

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference.

Coastal Engineering Research Center

0331 U.S. Army Corps of Engineers
5201 Little Falls Rd. NW.
Washington, D.C. 20016
Tel: (202) 986-0592

AREAS OF INTEREST: Shore processes, winds, waves, tides, surges, and currents as they apply to navigation improvements, coastal flood and storm protection, beach erosion control, and coastal engineering works; sedimentation; hydrography; tidal hydraulics; hydraulic models; coastal ecology.

HOLDINGS: 2,500 books; 231 current periodical titles; 2,500 current and noncurrent serials; 10,000 reports; 13,000 photos.

PUBLICATIONS: *Technical Memoranda*; *Miscellaneous Papers*; *Bulletin*; reprints of journal articles.

INFORMATION SERVICES: Provides consulting services to Federal or other public agencies free or for a fee, depending on extent of work required; provides literature-searching services without charge; makes interlibrary loans; permits onsite reference by technical personnel of other Government agencies upon request.

Facilities include 5 wave tanks (the largest is 635x15x20 feet deep and capable of producing test waves up to 6 feet high).

Director of Civil Works

0332 Office of the Chief of Engineers
U.S. Department of the Army
Washington, D.C. 20315
Tel: (202) 697-2925 or 697-7926

AREAS OF INTEREST: Civil engineering; water and related land resources conservation, development, and management, including preauthorization planning (feasibility studies of alternatives for proposed improvements to meet existing and future needs), design, construction, operation, maintenance, data collection and analysis, and research; multipurpose dams and appurtenant structures of various types; navigation improvements, including coastal and Great Lakes harbors and channels, and inland and intracoastal waterways; jetties, breakwaters, and seawalls; locks and canals; flood control works, including reservoirs, channel improvements, diversions and floodways, levees and floodwalls, and pumping stations; major drainage; hydroelectric power plants; municipal, industrial, and agricultural water supply; pollution abatement and water quality improvement through flow regulation; hurricane protection; shore protection and beach erosion control; river bank stabilization; salinity intrusion control; aquatic plant control; water-oriented recreation facilities; fish and wildlife preservation and enhancement; river and lake regulation; sediment control; hydrology and hydrologic engineering, including ground water; hydrometry and hydrography; hydraulics and hydraulic structures; concrete and constituents of concrete, particularly mass concrete; soil and rock mechanics; engineering geology; earthquake engineering; electrical and mechanical equipment; instrumentation; coastal engineering; construction technology and management; nuclear explosives for mass excavation, including channels and canals, harbors, quarrying, and ejecta dams.

HOLDINGS: Data compilations and technical reports, including engineering and physical information on authorized projects completed, underway, or not yet started.

PUBLICATIONS: Engineering manuals (most of which are for sale through the Army Engineer Waterways

Experiment Station); pamphlets describing water resources developments in individual States; brochures on individual projects; a list of installations and activities administered by the Office of the Chief of Engineers; descriptive statements of Civil Works responsibilities and activities; annual report of the Chief of Engineers for Civil Works (for sale by the Superintendent of Documents).

INFORMATION SERVICES: Answers inquiries; makes referrals.

Engineer Agency for Resources Inventories

REFERENCE BRANCH

0333 Engineer Agency for Resources Inventories
4701 North Sangamore Rd.
Washington, D.C. 20016
Tel: (301) 229-6522

AREAS OF INTEREST: Local government administration; aerial photo surveys and surveying techniques; agrarian reform; agricultural cooperatives; agricultural crops and livestock; agricultural sciences; airfields and airports; atlases; area description (general); boundaries (international and national); building materials; cartography and geography; census; city planning; climate; commerce; communications systems and facilities; conservation; cultural geography; dams; economic development and planning; diseases and disease incidence; drainage; ecology; economic geography and geology; education and schools; electric power and power plants; environmental factors; ethnic classes; fauna; fertilizers; fish and fisheries; floods and flood control; flora; forestry and forest products; fuels; geodesy; geology; geomorphology; geophysics; government organization; ground surveys and surveying techniques; health services (public and private); heavy and light industry and industrial facilities; hydrography; hydrology; inland waterways; international conferences and organizations; irrigation; land ownership (agriculture); land utilization; metals (ferrous and nonferrous); meteorological data; minerals and mineralogical exploration; mining; natural resources; nutrition; pacification measures; petroleum; ports (inland and maritime); pipelines; public health and welfare; reclamation (economic planning); refugees; regional planning; religion; resettlement; rice; river studies; public sanitation; soil science; statistics; technical aid (foreign); terrain analysis; tourist trade and tourism; town and urban areas (geography); transportation systems; vegetation; vital statistics; water (surface and underground); water control systems; water transportation systems; weather; wood and wood products.

HOLDINGS: 4,000 books and technical reports; 300 files of data; 800 special subject maps; 100 journal titles.

PUBLICATIONS: *Selected Accessions* (weekly, available on written request); resource atlases (not generally available for public distribution); special studies, reports, papers, and manuals (some available on request); bibliographies.

INFORMATION SERVICES: Answers inquiries; provides advisory, reference, and limited bibliographic services; makes limited interlibrary loans.

Jacksonville District

0334 U.S. Army Corps of Engineers
P.O. Box 4970
Jacksonville, Fla. 32201

Location:

400 West Bay St.
Jacksonville, Fla.
Tel: (904) 791-2246

AREAS OF INTEREST: Water resources; flood control; river, canal, and harbor development; coastal engineering; foundation and materials; structures; military construction; dredging; hydraulics; water management; recreation; water quality control; fish and wildlife preservation.

HOLDINGS: Small reference library and some relatively current engineering and related periodicals.

PUBLICATIONS: Specifications, reports.

INFORMATION SERVICES: Answers inquiries; provides copies of engineering reports produced in-house and other duplication services for fee; provides technical services related to floods and flood plains and to effects on installations.

Little Rock District

0335 U.S. Army Corps of Engineers
P.O. Box 867
Little Rock, Ark. 72203

Location:

Federal Office Bldg.
700 Capitol Ave.
Little Rock, Ark.
Tel: (501) 372-4361

AREAS OF INTEREST: Planning, construction, operation, and maintenance of water and related land resource development projects in the White River Basin in southern Missouri and northern Arkansas, and in the Arkansas River Basin in Arkansas. Purposes of these projects include flood control, navigation, hydroelectric power, water supply, water quality control, outdoor recreation, fish and wildlife enhancement, drainage, irrigation, and economic development.

HOLDINGS: Engineering design and survey data, maps, project information pamphlets and brochures, reports on project feasibility, general information on water resource development projects.

PUBLICATIONS: Specifications, reports, project pamphlets or brochures.

INFORMATION SERVICES: Answers inquiries; lends materials; provides duplication services for fee.

Office of Administrative Services

SCIENTIFIC AND TECHNICAL INFORMATION DIVISION

0336 Office of the Chief of Engineers
U.S. Department of the Army
Washington, D.C. 20314

Location of Library:

Forrestal Bldg.
10th St. and Independence Ave. SW.
Washington, D.C. 20314
Tel: (202) 693-6136

The Division, which produces reports, abstracts, and engineering regulations on scientific information, is principally concerned with activities traditionally associated with the Corps of Engineers. It also operates the Library of the Office of the Chief of Engineers, which has recently expanded the subject coverage of its collections to accommodate other Department of Defense organizations housed in the Forrestal Building.

AREAS OF INTEREST: Civil and military engineering; civil engineering structures; design of protective structures; fluvial hydraulics; soil mechanics; hydroelectric power; nuclear sources of electric power; U.S. topographic surveys; geology. Recent extension of interests include education, personnel administration, management, accounting, law enforcement, human rights, sports and recreation, communications electronics, and automatic and electronic data processing.

HOLDINGS: The Library has over 50,000 volumes with special collections of early congressional documents and technical reports on U.S. Army Corps of Engineers surveys of the Middle and Far West, and of river navigation improvement. Extensive holdings in research and development literature are also part of the collection.

PUBLICATIONS: List of accessions, union lists of serials in the building.

INFORMATION SERVICES: Provides document and literature-searching services without charge, priority being given to requests from official users; makes interlibrary loans; permits onsite use of collections by prior arrangement.

U.S. Army Engineer District, Lake Survey

0337 Executive Office
630 Federal Bldg.
Detroit, Mich. 48226
Tel: (313) 226-6161

AREAS OF INTEREST: Great Lakes and connecting channels, including charting, hydraulics, hydrology, and "fresh-water" oceanography (data collection, evaluation, analysis, and instrumentation in fields of coastal engineering and water resources).

HOLDINGS: Hydrometeorological data (precipitation, solar radiation, barometric pressure, air temperature, relative humidity, wind velocity and direction) on punched cards and magnetic tape; oceanographic data (wave and offshore current data, physical/chemical data, nitrate, chloride phosphate, sulphate, silica, magnesium, calcium, sodium, potassium, dissolved oxygen and coliform concentrations) on punched cards and magnetic tape; surface water temperature data; bathythermograph profiles; bottom sediment samples (physical descriptions); hydraulic and hydrologic data (hourly, daily, and monthly mean water levels, discharge measurements, inflow and outflow data) on punched cards and magnetic tape; hydrographic data, including more than 800,000 miles of soundings for the Great Lakes, and additional hydrographic and topographic survey data in manuscript form (field notebooks, survey drawings); 6,000 books and monographs; 150 periodical titles; many reports, pamphlets, and reprints; specialized bibliographic, abstract, and review literature; surveys, physical data, and data compilations prepared by all organizations in the Great Lakes area; historical material (basic data collections) pertaining to the Great Lakes area since the mid-1800's.

PUBLICATIONS: 143 charts of Great Lakes and certain contiguous waters (mainly triennial); *Great*

Lakes Pilot (annual, with six monthly supplements, May through October); *Monthly Bulletin of Lake Levels*; *Hydrograph* (*1860 to date*) *of Lake Levels* (annual); *Catalog of Charts and Publications* (annual); *Directory of Great Lakes Research Projects*; *Engineering and Research Report Series*; *Miscellaneous Paper Series*; *Bulletin Series*; *Basic Data Reports*; various hydraulic and hydrologic data forms, brochures, Great Lakes Data Forecasts, and certain in-house and limited distribution publications.

INFORMATION SERVICES: Answers inquiries; disseminates scientific and technical data to the scientific and engineering community; lends films and displays to Federal, State, and local groups; provides speakers for meetings and conducts related public service functions.

Office of the Surgeon General

U.S. Army Environmental Hygiene Agency

0338 Edgewood Arsenal, Md. 21010
Tel: (301) 671-4236

AREAS OF INTEREST: Environmental health engineering, including water treatment, sewage treatment, disposal of solid, liquid, industrial, infectious, radioactive, and other hazardous wastes, design and operation of swimming pools, air and water pollution abatement, lighting, heating, and ventilation of buildings, noise abatement, industrial hygiene, and general sanitation; occupational health, including occupational vision, hearing conservation, occupational nursing, and protective clothing and devices; pharmacology, in particular toxicology; medical entomology, including insecticide resistance studies and pesticide dispersal methods and equipment; radiological hygiene, including health physics, radiochemistry, and laser and microwave radiation protection; bacteriology, analytical chemistry, biochemistry, and industrial hygiene chemistry.

HOLDINGS: Over 8,000 unpublished surveys, reports, studies, and data; a technical reference library of 20,000 books, monographs, journals, reports, standards, and specifications; statistical computation and analysis, aperture card, and printout capabilities. Some data are on aperture cards and a data acquisition system is available.

INFORMATION SERVICES: Answers inquiries from the military services and medical and health authorities of other Federal agencies and departments; conducts training courses for Army sanitary engineers, industrial hygienists, nurses, physicians, entomologists, sanitarians, health physicists, and other health professionals (other Federal agency personnel are admitted to the courses on a quota basis).

ARNOLD ENGINEERING DEVELOPMENT CENTER

see Air Force, Department of the. Air Force Systems Command

ARO, INC.

AEDC Library

0339 ARO, Inc.
Arnold Air Force Station
Tullahoma, Tenn. 37389
Tel: (615) 455-2611 Ext. 431

AREAS OF INTEREST: Aerodynamics; aeronautical engineering; rocket propulsion; optics; physics; mathematics; spacecraft; propellants; missiles; rocket motors; telemetry; supersonic flight.

HOLDINGS: About 30,000 books and 650 periodical titles.

INFORMATION SERVICES: Answers inquiries; provides reference and literature-searching services; makes interlibrary loans; permits onsite reference. Services are available to engineers, scientists, and military personnel with a need to know.

ARTHUR D. LITTLE, INC.

Information Services

0340 Arthur D. Little, Inc.
15 Acorn Park
Cambridge, Mass. 02140
Tel: (617) 864-5770

AREAS OF INTEREST: All branches of science, technology, and economics, including chemistry and chemical engineering, physics, geology, geophysics, aerospace sciences, mathematics, meteorology, metallurgy, biology, mineralogy, mechanical engineering, industrial technology, market research, area development, operations research, industrial economics, and economic development.

HOLDINGS: 17,000 books; 1,700 journals; 27,000 reports; patents.

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Provides consulting services on contract basis. Reference use of the library by nonclients is decided on an individual basis. A variety of literature-searching and related services are performed at service-time rates.

ASBESTOS TEXTILE INSTITUTE

0341 P.O. Box 239
Pompton Lakes, N.J. 07442

Location:
75 Center St.
Pompton Lakes, N.J.
Tel: (201) 839-2216

AREAS OF INTEREST: Asbestos; textiles; industrial health; safety; air hygiene; quality standards.

PUBLICATIONS: *Handbook of Asbestos Textiles*; *Method for Determining Asbestos Dust Concentration*; *Testing Procedures for Chrysotile Asbestos Fibre*; standards and specifications.

INFORMATION SERVICES: Answers inquiries.

ASHLAND CHEMICAL CO.

Research and Development Department

Research Library

0342 Ashland Chemical Co.
10701 Lyndale Ave. South
Minneapolis, Minn. 55420
Tel: (612) 888-7931

AREAS OF INTEREST: Glyceride fats, oils, and their derivatives; resins; plasticizers; organic protective coatings.

HOLDINGS: Books, journals, reports, patents, data.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference by appointment.

ASPHALT AND VINYL ASBESTOS TILE INSTITUTE

0343 101 Park Ave.
New York, N.Y. 10017
Tel: (212) 686-3937

AREAS OF INTEREST: Asphalt and vinyl asbestos tile.

PUBLICATIONS: Standards and specifications, pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals.

THE ASPHALT INSTITUTE

0344 Asphalt Institute Bldg.
College Park, Md. 20740
Tel: (301) 927-0422

AREAS OF INTEREST: Asphalt and asphalt products; road, street, highway, and airfield paving; hydraulic structures; construction of parking lots, driveways, and recreation facilities.

HOLDINGS: Pamphlets, films, visual aids, reports, data.

PUBLICATIONS: *Asphalt* (quarterly magazine); pamphlets, brochures, reports, standards and specifications, handbooks.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services on engineering matters.

ASSOCIATED GENERAL CONTRACTORS OF AMERICA

0345 1957 E St. NW.
Washington, D.C. 20006
Tel: (202) 393-2040

AREAS OF INTEREST: Building, highway, heavy, and utilities construction; contract forms; safety; standards and codes; handling of jurisdictional labor disputes; manpower and apprentice training information.

HOLDINGS: Data.

PUBLICATIONS: *The Constructor* (monthly); *National Newsletter* (weekly).

INFORMATION SERVICES: Answers inquiries.

ASSOCIATED LOCKSMITHS OF AMERICA, INC.

Security Standards Committee

0346 Associated Locksmiths of America, Inc.
767 Lexington Ave.
New York, N.Y. 10022
Tel: (212) 753-7518

AREAS OF INTEREST: Physical security systems and devices, including standards for such systems and devices and servicing of the devices.

HOLDINGS: 100 periodical titles.

PUBLICATIONS: Bulletins (restricted distribution).

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services; makes referrals. Services are provided on a selective basis, since some information is restricted to protect the public, and are provided free or for a fee, depending on the type of information requested.

ASSOCIATED TECHNICAL SERVICES, INC.

0347 855 Bloomfield Ave.
Glen Ridge, N.J. 07028
Tel: (201) 748-5673

AREAS OF INTEREST: All major physical and life sciences; technology and engineering.

HOLDINGS: 3,650 books; 320 journals; 2,240 dictionaries (in 44 languages); 13,900 translations; 8 drawers of preprints and reprints; 5 drawers of technical catalogs and directories.

PUBLICATIONS: *Lists of Technical Translations* (irregular); *Dictionary Catalog & Bibliography* (irregular); *Russian Oil and Gas Prospecting, Production and Research Bulletin* (bimonthly).

INFORMATION SERVICES: Provides worldwide literature-searching (especially Russian, Japanese, and German), both retrospective and current awareness, consulting, abstracting, and translation services; provides photocopying service covering technical publications and patents on worldwide basis. Reference use of the library is decided on an individual basis.

ASSOCIATION FOR MACHINE TRANSLATION AND COMPUTATIONAL LINGUISTICS

0348 c/o Wayne State University
Slavic Department
151 A.S.B. 1
Detroit, Mich. 48202
Tel: (313) 833-1400 Ext. 497

AREAS OF INTEREST: Machine translation (the use of computers for translation from one natural language to another); linguistic investigations (studies of morphology, syntax, and semantics; lexicography; application of automatic classification techniques; semi-automatic methods of textual analysis and informant work); literary scholarship (stylistics; concordances and indices verborum; variorum editions, attributions, and comparison of texts; metrical studies and word correlations); information retrieval (methods for analysis of full text before or after storage in a repository and for selection of documents, paragraphs, or individual facts responsive to clients' questions; automatic indexing, abstracting, and paraphrasing); publication systems (on-line and off-line methods for automatic copy preparation; editing, justification, page makeup, and archiving; selection of material for index and abstract journals); content analysis (psychological and sociological analysis of interview transcripts, group discussions, personal documents, mass communications, etc.).

HOLDINGS: *Prague Bulletin of Mathematical Linguistics*; *Computational Linguistics*, Vol. III; *Cahiers de Linguistique*; periodicals, reprints.

PUBLICATIONS: *the Finite String* (newsletter, 10 issues a year); *Mechanical Translation* (journal, 4 issues a year).

INFORMATION SERVICES: Answers inquiries; makes referrals.

ASSOCIATION OF AMERICAN GEOGRAPHERS

0349 1146 16th St. NW.
Washington, D.C. 20036
Tel: (202) 296-6345

AREAS OF INTEREST: Geography (research, field studies, educational).

HOLDINGS: Hundreds of volumes of journals; reports, map supplements.

PUBLICATIONS: *Annals of the Association of American Geographers* (quarterly); *The Professional Geographer* (bimonthly); monographs (irregular), reports, map supplements.

INFORMATION SERVICES: The Association serves as a channel for the acquisition of geographic journals through an exchange program with foreign countries. Russian periodicals are deposited in the University of Chicago Library, and those in other languages are at the AAG repository at the University of Cincinnati Library. Loan services are provided through the libraries.

ASSOCIATION OF AMERICAN RAILROADS

Bureau of Explosives

0350 Association of American Railroads
2 Pennsylvania Plaza
New York, N.Y. 10001
Tel: (212) 565-2710

AREAS OF INTEREST: Preparation, packaging, and handling of dangerous articles for transportation; explosives; fires; flammable materials; acids; radioactive materials; shipping containers; inspection.

HOLDINGS: Reports, books, data.

PUBLICATIONS: Reports, standards and specifications, reviews, regulations covering shipment of dangerous articles.

INFORMATION SERVICES: Answers inquiries; provides consulting and literature-searching services. Services are provided free to Federal and local government agencies, and for a fee to others.

The Association maintains a laboratory for the study of dangerous articles.

Research and Test Department

0351 Association of American Railroads
American Railroads Bldg.
1920 L St. NW.
Washington, D.C. 20036
Tel: (202) 293-4182

Laboratory:

3140 South Federal St.
Chicago, Ill. 60616
Tel: (312) 225-9600

AREAS OF INTEREST: Research pertaining to problems of carriers and analysis and study of all phases of transportation.

HOLDINGS: Small collection of books, periodicals, and reports.

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services.

ASSOCIATION OF CONSERVATION ENGINEERS

0352 c/o Wisconsin Department of Natural
Resources
Box 450
Madison, Wis. 53701
Tel: (608) 266-2135

AREAS OF INTEREST: Engineering practices in fish, wildlife, and recreation developments; water structures; water quality; water supply; water conservation; water pollution; sewage disposal and treatment; protection of water supply for parks and recreation areas in the State; lake surveys.

INFORMATION SERVICES: Answers inquiries.

ASSOCIATION OF CONSULTING CHEMISTS AND CHEMICAL ENGINEERS, INC.

0353 50 East 41st St.
New York, N.Y. 10017
Tel: (212) 684-6255

AREAS OF INTEREST: Chemistry; chemical engineering.

PUBLICATIONS: A directory, *Consulting Services* (available for purchase), published in looseleaf form and revised biennially, contains a classified index of member specialists and descriptive data on each member, as well as alphabetical and geographical indexes.

INFORMATION SERVICES: Provides, without charge, the names and addresses of members specializing in particular fields of chemistry and chemical engineering.

ASSOCIATION OF DATA PROCESSING SERVICE ORGANIZATIONS

0354 551 Fifth Ave.
New York, N.Y. 10017
Tel: (212) 679-1095

AREAS OF INTEREST: Public data processing services.

HOLDINGS: Computer programs.

PUBLICATIONS: *Guidon* (bimonthly); membership directory (annual); reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

ASSOCIATION OF IRON AND STEEL ENGINEERS

0355 1010 Empire Bldg.
Pittsburgh, Pa. 15222

Tel: (412) 281-6323

AREAS OF INTEREST: Technical and engineering aspects of the production and processing of iron and steel.

PUBLICATIONS: *Iron and Steel Engineer* (monthly); *Proceedings* (annual).

INFORMATION SERVICES: Answers brief inquiries from the steel industry or accredited organizations.

ASSOCIATION OF LOCAL TRANSPORT AIRLINES

0356 777 14th St. NW.
Washington, D.C. 20005
Tel: (202) 638-5600

AREAS OF INTEREST: Air transportation; local service carriers; public benefits; subsidies.

HOLDINGS: Reports, maps, charts, data.

PUBLICATIONS: *Public Benefits Provided by Local Service Carriers* (irregular).

INFORMATION SERVICES: Answers inquiries.

ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS

0357 Box 540
Benjamin Franklin Station
Washington, D.C. 20044

Location:

200 C St. SW.
Washington, D.C.
Tel: (202) 962-1107

AREAS OF INTEREST: Analytical chemistry; chemical, microbiological, and organoleptic methods of analysis for beverages, foods and food additives, vitamins and other nutrients, marine products, oils and fats, drugs, cosmetics, disinfectants, fertilizers, pesticide formulations and residues, radioactivity, and hazardous substances.

HOLDINGS: Books, periodicals.

PUBLICATIONS: *Journal of the Association of Official Analytical Chemists* (bimonthly); *Official Methods of Analysis of the AOAC* (every 5 years, with annual supplements). A complete list of AOAC publications is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services.

ASSOCIATION OF OFFICIAL RACING CHEMISTS

0358 148-07 Hillside Ave.
Jamaica, N.Y. 11435
Tel: (212) 523-8390

AREAS OF INTEREST: Analysis of urine, saliva, and blood from racing animals for drugs, using analytical methods that include immiscible solvent extraction, microcrystal and color tests, ultraviolet and infrared spectrophotometry, paper and thin-layer chromatography, and gas chromatography.

HOLDINGS: 22 volumes of proceedings of the Association's annual meetings; 9 volumes of Association bulletins.

PUBLICATIONS: *The Chemical Laboratory and Its Role in Racing* (booklet); proceedings of annual meetings; bulletins.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services. Extensive services are provided only to Association members.

ASSOCIATION OF OIL PIPE LINES

0359 RCA Bldg., Suite 1208
1725 K St. NW.
Washington, D.C. 20006
Tel: (202) 333-2226

AREAS OF INTEREST: Oil pipeline construction; transportation of crude oil, petroleum, gasoline, kerosene, jet fuel, and natural gas liquids.

HOLDINGS: Data.

PUBLICATIONS: *Shifts in Petroleum Transportation* and *Tables of Statistics on Oil Transportation* (both annual); data.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and consulting services.

ASSOCIATION OF STATE AND INTERSTATE WATER POLLUTION CONTROL ADMINISTRATORS

0360 c/o A. H. Paessler, Secretary-Treasurer
P.O. Box 11143
Richmond, Va. 23230
Tel: (703) 770-2241

AREAS OF INTEREST: Administration of water pollution control programs by State, interstate, and national organizations and agencies.

PUBLICATIONS: Proceedings of the Association's annual meetings.

INFORMATION SERVICES: Makes referrals to member specialists.

ASTRONOMICAL LEAGUE

0361 4 Klopfer St.
Pittsburgh, Pa. 15209
Tel: (412) 821-2681 or 565-5130

AREAS OF INTEREST: Astronomy; astronomical observatories; education in astronomy.

HOLDINGS: Limited collection of books.

PUBLICATIONS: *Reflector* (quarterly); convention proceedings (annual); two books on observing, *Observe, A Guide to the Messier Objects* and *Observe, and Understand the Stars* (both $1 per copy); the following booklets: *Manual for Junior Activities* and *Astronomical Films, Organizations, Periodicals* (both 10 cents per copy) and *Organizing an Amateur Astronomical Society* and *Preparing and Presenting a Paper* (single copies available on request).

INFORMATION SERVICES: Answers inquiries regarding League activities; makes referrals; makes limited library loans to League members.

The League assists in organizing amateur astronomical societies, in astronomical conventions, telescope making, observational coordination, and individual observations. It does not distribute texts on astronomy, space, rockets, radio astronomy, etc., or charts and posters.

ASTROPHYSICAL OBSERVATORY

see Smithsonian Institution

ATLANTA PUBLIC LIBRARY

Business and Science Department

0362 Atlanta Public Library
126 Carnegie Way NW.
Atlanta, Ga. 30303
Tel: (404) 522-9363

AREAS OF INTEREST: Mathematics; astronomy; physics; chemistry; geology; paleontology; biology; anthropology; botany; zoology; medicine; engineering; agriculture; home economics; business; economics; statistics; political science; education.

HOLDINGS: 61,000 books; 6,000 bound periodicals; newspapers, bibliographies, pamphlets, abstracts, indexes, publication lists.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; lends materials; provides limited bibliographic services; permits onsite use of collection.

ATLANTIC OCEANOGRAPHIC LABORATORIES

see Commerce, Department of. Environmental Science Services Administration. Research Laboratories

ATLANTIC-PACIFIC INTEROCEANIC CANAL STUDY COMMISSION

0363 726 Jackson Pl. NW., Room 6217
Washington, D.C. 20506
Tel: (202) 382-5522

AREAS OF INTEREST: Feasibility (including feasibility of nuclear excavation), location, construction, financing, and defense of a sea-level canal connecting the Atlantic and Pacific oceans.

PUBLICATIONS: *Annual Progress Report* to the President of the United States for transmission to the Congress on July 31 each year (final report and recommendations due Dec. 1, 1970).

INFORMATION SERVICES: Answers inquiries, subject to security restrictions on classified information.

ATLANTIC RICHFIELD CO.

Research and Development Department (Southwest Division)

0364 Technical Information Center
Atlantic Richfield Co.
P.O. Box 2819
Dallas, Tex. 75221

Location:

4500 West Mockingbird Lane
Dallas, Tex.
Tel: (214) 747-6484

AREAS OF INTEREST: Petroleum exploration and production, including such related sciences and technology as chemistry, physics, geology, geophysics, engineering, economics, electronics, and mathematics.

HOLDINGS: 5,000 books; 250 journals; 8,000 internal reports; 4,000 reports of Government agencies, societies, etc.; motion pictures, photographs, maps, charts, data.

PUBLICATIONS: Abstract journal, state-of-the-art reviews, index, bibliography, translations.

INFORMATION SERVICES: Makes interlibrary loans of nonconfidential material.

ATMOSPHERIC PHYSICS AND CHEMISTRY LABORATORY

see Commerce, Department of. Environmental Science Services Administration. Research Laboratories

ATOMIC AND MOLECULAR IONIZATION PROCESSES DATA CENTER

see Commerce, Department of. National Bureau of Standards

ATOMIC AND MOLECULAR PROCESSES INFORMATION CENTER

see Oak Ridge National Laboratory

ATOMIC ENERGY COMMISSION

Division of Industrial Participation

0365 U.S. Atomic Energy Commission
Washington, D.C. 20545

Location:

Germantown, Md.
Tel: (301) 973-5573

AREAS OF INTEREST: Development of a private competitive nuclear industry; non-nuclear applications of AEC-developed innovations; use of industrial facilities and capabilities in conduct of AEC programs.

PUBLICATIONS: *The Nuclear Industry* (annual).

INFORMATION SERVICES: Answers inquiries; makes referrals. The Division serves as a focal point for industry in obtaining information on opportunities for private participation and investment in the development and use of atomic energy for civilian purposes and for support of Government programs. The Division is also a central clearing point for AEC relations with the Atomic Industrial Forum and trade associations and a contact point for State and local governments on nonregulatory matters.

Division of Public Information

0366 U.S. Atomic Energy Commission
Washington, D.C. 20545

Location:

Germantown, Md.
Tel: (301) 973-3446

AREAS OF INTEREST: All aspects of the Atomic Energy Commission program.

HOLDINGS: Public announcements (news releases), major speeches, films, photos, and slides on AEC operations.

PUBLICATIONS: *AEC--What It Is--What It Does*; *Licensing of Power Reactors*; other popular-level books on the AEC and its programs.

INFORMATION SERVICES: Answers inquiries from news media, other agencies, and the public on AEC programs, including regulations, licensing, patents, contracts, budget, and unclassified production data; distributes news announcements, photos, and publications of other AEC divisions, including AEC's annual *Financial Report*; operates film libraries; maintains liaison with news, educational, and technical media, including radio and television; operates a speakers bureau.

Division of Technical Information

0367 U.S. Atomic Energy Commission
Washington, D.C. 20545

Location:

4915 St. Elmo Ave.
Bethesda, Md.
Tel: (301) 973-1000

AREAS OF INTEREST: The Division is responsible for AEC's technical information services, including: the administration of the Division of Technical Information Extension, Oak Ridge, Tenn.; publication of scientific and technical books, monographs, critical reviews and journals, booklets, and other educational media; the operation of foreign and domestic exhibits and of school science-lecture-demonstration programs; and coordination of participation in international conferences, the specialized information center program, and the program to transfer AEC-developed technology to private organizations and individuals.

INFORMATION SERVICES: Answers inquiries or refers inquirers to appropriate headquarters program divisions.

Division of Technical Information Extension

0368 U.S. Atomic Energy Commission
P.O. Box 62
Oak Ridge, Tenn. 37830
Tel: (615) 483-4352

AREAS OF INTEREST: Nuclear science and technology, including the body of knowledge related to production, properties, principles, and phenomena of atomic nuclei, subatomic particles, gamma-rays and X-rays, and the application of the principles and phenomena of nuclear science to other sciences and engineering, and, conversely, the application of other sciences and engineering to the problems of nuclear science.

HOLDINGS: The AEC's master collection of atomic energy literature, including AEC and AEC-contractor technical reports, journal articles, conference papers and proceedings, patents, dissertations, books, monographs, and critical reviews, pertinent reports of other U.S. agencies and their contractors, reports of other countries having atomic energy programs, English translations of foreign atomic energy literature, and engineering drawings, specifications, and related materials.

PUBLICATIONS: *Nuclear Science Abstracts* (semimonthly, with personal author, corporate author, report number, and subject indexes), providing worldwide coverage of unclassified atomic energy literature; three *Technical Progress Reviews*: "Isotopes and Radiation Technology" (quarterly), "Reactor Technology" (quarterly), and "Nuclear Safety" (bimonthly), each summarizing and evaluating recent developments in its specific area. The DTI Extension will upon request provide the following free publications: *Science Information Available from the Atomic Energy Commission* (TID 4550), a guide to AEC's science-information programs and services; *Books and Monographs Sponsored by the United States Atomic Energy Commission*, a catalog giving titles, scope, price, and availability of items listed; *Nuclear Science Abstracts--Guide to the World's Atomic Energy Literature*, containing general information on the content, use, and availability of *Nuclear Science Abstracts*; *The AEC Combined 16mm Film Catalog*, listing and describing technical and popular level films loaned free for public nonprofit exhibition; *Classroom Films on Nuclear Science*, a catalog listing and describing 16mm films loaned free for use by teachers in secondary schools or undergraduate college classes; and *Index to the Understanding the Atom Series*, listing titles and topics covered by this Series, which is described below.

INFORMATION SERVICES: (*a*) *Educational:* Educational booklets, posters, brochures, and pamphlets on a variety of subjects are available at no cost to school librarians, teachers, students, and other requesters in limited quantities. Prices for bulk quantities are nominal. The principal resource is the *Understanding the Atom* Series of educational booklets. This Series, comprising about 50 booklets, covers six categories: physics, chemistry, biology, nuclear reactors, environment, and general. The AEC presents exhibits and demonstrations to increase public knowledge and understanding of the peaceful uses of nuclear energy and to encourage student interest in science careers. Inquiries about availability and scheduling should be directed to the AEC exhibits contractor, Oak Ridge Associated Universities, Oak Ridge, Tenn. 37830. Other questions may be referred to the Division of Technical Information, Washington, D.C. (*b*) *Technical:* The DTI Extension provides reference and literature-searching services to qualified requesters. The majority of AEC's unclassified reports, critical reviews, symposia proceedings, translations, etc. may be purchased in paper copy or in microfiche from the National Technical Information Service, U.S. Department of Commerce, Springfield, Va. 22151. Certain libraries throughout the United States maintain collections of AEC scientific and technical reports through purchase of microfiche. Their report collections also include foreign reports that are abstracted in *Nuclear Science Abstracts* (NSA), NSA and its indexes, the *Technical Progress Reviews*, AEC-sponsored translations, conference proceedings published by AEC, and various bibliographic tools. Most of these libraries have microfiche reader-printers or other photocopy facilities to reproduce enlarged copies from microfiche. Charges for reproduction services vary. The libraries are located as follows:

Alabama

Auburn, Auburn University

Alaska

College, University of Alaska

Arizona

Tucson, University of Arizona

Arkansas

Fayetteville, University of Arkansas

California

Davis, University of California
Los Angeles, University of California
Stanford, Stanford University

Colorado

Boulder, University of Colorado
Denver, Public Library

Connecticut

New Haven, Yale University

Delaware

Newark, University of Delaware

District of Columbia

Washington, Library of Congress

Florida

Gainesville, University of Florida

Georgia

Atlanta, Georgia Institute of Technology

Hawaii

Honolulu, University of Hawaii

Idaho

Pocatello, Idaho State University

Illinois

Evanston, Northwestern University
Urbana, University of Illinois

Indiana

Lafayette, Purdue University

Iowa

Ames, Iowa State University

Kansas

Manhattan, Kansas State University

Kentucky

Lexington, University of Kentucky
Louisville, University of Louisville

Louisiana

New Orleans, Tulane University

Maryland

Baltimore, Johns Hopkins University
College Park, University of Maryland

Massachusetts

Cambridge, Massachusetts Institute of Technology

Michigan

Ann Arbor, University of Michigan

Mississippi

State College, Mississippi State University

Missouri

Kansas City, Linda Hall Library

Nevada

Las Vegas, University of Nevada
Reno, University of Nevada

New Jersey

Princeton, Princeton University
Teaneck, Fairleigh Dickinson University

New Mexico

Albuquerque, University of New Mexico

New York

Albany, The University of the State of New York
Buffalo, State University of New York at Buffalo
Ithaca, Cornell University
New York, Atomic Industrial Forum, Inc.
New York, Columbia University
Rochester, University of Rochester
Syracuse, Syracuse University

North Carolina

Durham, Duke University
Raleigh, North Carolina State University

Ohio

Cincinnati, University of Cincinnati
Columbus, Ohio State University
Toledo, University of Toledo

Oklahoma

Norman, University of Oklahoma

Oregon

Corvallis, Oregon State University

Pennsylvania

Philadelphia, University of Pennsylvania
Pittsburgh, Carnegie Library
University Park, Pennsylvania State University

Puerto Rico

San Juan, University of Puerto Rico

South Carolina

Columbia, University of South Carolina

Tennessee

Knoxville, University of Tennessee
Nashville, Joint University Libraries
Oak Ridge, Oak Ridge Associated Universities

Texas

Austin, University of Texas
College Station, Texas A&M University
Houston, Rice University
Lubbock, Texas Technological College

Utah

Salt Lake City, University of Utah

Virginia

Blacksburg, Virginia Polytechnic Institute and State University
Charlottesville, University of Virginia

Washington

Pullman, Washington State University
Seattle, University of Washington

West Virginia

Morgantown, West Virginia University

Wyoming

Laramie, University of Wyoming

Headquarters Library

0369 U.S. Atomic Energy Commission
Division of Headquarters Services
Library Branch
Washington, D.C. 20545

Location:

Germantown, Md.
Tel: (301) 973-4166

Branch Library:

Bethesda Library
4915 St. Elmo Ave.
Bethesda, Md. 20014
Tel: (301) 973-7488

AREAS OF INTEREST: Nuclear science and technology; physics; chemistry; metallurgy; engineering; mathematics; biology; medicine; management; Federal legislation.

HOLDINGS: A book and journal collection of over 50,000 items; over 500,000 classified and unclassified AEC reports; a legislative collection of over 50,000 volumes.

INFORMATION SERVICES: Answers inquiries or refers inquirers to appropriate headquarters program division; makes interlibrary loans, primarily to libraries in the Greater Washington area; permits onsite reference to the unclassified collections by representatives of Government agencies, their contractors, universities, and industry, provided arrangements are made in advance.

ATOMIC ENERGY DOCUMENTATION SERVICE, INC.

0370 7 Woodland Ave.
Larchmont, N.Y. 10538
Tel: (914) 834-8864

This organization serves as liaison office for Zentralstelle Fuer Atom-Kernenergie-Dokumentation, Leopoldshafen (Karlsruhe), West Germany (sponsored by West German Science Ministry) to provide literature services in nuclear science and engineering.

AREAS OF INTEREST: Physics; inorganic chemistry; nuclear engineering; nuclear safety and standards.

HOLDINGS: 50,000 reports; 5,000 books; 250 periodical titles.

PUBLICATIONS: Abstracts, indexes, bibliographies.

INFORMATION SERVICES: Answers inquiries; provides reference, literature-searching, and duplication services on fee basis.

ATOMIC INDUSTRIAL FORUM, INC.

0371 850 Third Ave.
New York, N.Y. 10022
Tel: (212) 754-1075

AREAS OF INTEREST: Nuclear insurance and indemnity; radiation and radioisotopes; nuclear space applications; atomic energy legislation; health and safety; nuclear standards; AEC licensing and regulations; uranium mining and milling; nuclear reactor fuel ownership and financing; industry-government relations; civilian nuclear reactor policies and progress; public relations; Plowshare applications; nuclear merchant ships; uranium enrichment; safeguarding of special nuclear materials; transportation of nuclear materials.

HOLDINGS: 350 books; 75 bound volumes; 1,000 AEC reports; 7,000 pamphlets.

PUBLICATIONS: *Nuclear Industry* (monthly); irregular publications (a price list is available).

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference by members.

ATOMIC POWER DEVELOPMENT ASSOCIATES, INC.

0372 1911 First St.
Detroit, Mich. 48226
Tel: (313) 962-9510

AREAS OF INTEREST: Development of atomic power into commercially practicable means of electric power generation, primarily the liquid-metal-cooled fast breeder reactor and associated liquid metal technologies and water-cooled (thermal) reactors.

HOLDINGS: A Document Library of about 35,000 research and development reports, virtually all of which are in the field of atomic energy, over 1,200 books in a broad spectrum of scientific and engineering disciplines, over 50 periodical subscriptions, and subscriptions to several news-type services.

PUBLICATIONS: Research and development reports. Requests from the scientific and technical community for virtually all APDA reports are honored without charge to the extent permitted by contractual obligations and the available supply.

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans; permits onsite use of collection. Services are provided within the limitations of staff availability.

ATOMIC TRANSITION PROBABILITIES DATA CENTER

see Commerce, Department of. National Bureau of Standards

ATOMICS INTERNATIONAL

Liquid Metals Information Center

0373 Atomics International
P.O. Box 1449
Canoga Park, Calif. 91304
Tel: (213) 341-1000 Ext. 6424

Sponsored by the U.S. Atomic Energy Commission, the Center collects, analyzes, and interprets liquid metals information.

AREAS OF INTEREST: Liquid metals technology, with initial emphasis on sodium and NaK, including properties, chemistry, materials compatibility, fluid flow, heat transfer, components, instrumentation, purification, handling and storage, procurement, fabrication, operation, maintenance, safety, systems, and applications.

PUBLICATIONS: Bibliographies, state-of-the-art reviews, data compilations, brochures.

INFORMATION SERVICES: Answers inquiries; provides literature-searching and consulting services; provides information on current research and development programs. Services are available to U.S. Government agencies and their contractors, research and educational institutions, and industry.

AUBURN UNIVERSITY

Alabama Agricultural Experiment Station

0374 Auburn University
Auburn, Ala. 36830
Tel: (205) 826-4840

AREAS OF INTEREST: General agriculture, with basic and applied research in the following areas: agricultural economics and rural sociology; agricultural engineering; agronomy and soils; animal health; animal science; botany and plant pathology; dairy science; forestry; home economics; horticulture; poultry; publications; zoology (wildlife and fisheries); and entomology.

PUBLICATIONS: *Highlights of Agricultural Research* (quarterly); research reports (bulletins, circulars, leaflets, progress reports, variety reports, technical papers).

INFORMATION SERVICES: Answers inquiries; provides consulting services as time and staff permit; provides soil tests and nematode identification; makes referrals.

Facilities include 16,814 acres of land at ten substations, four experiment fields, four forestry units, plant breeding unit, ornamental horticulture field station, foundation seed stocks farm, and the main station at Auburn.

Nuclear Science Center

0375 Auburn University
Auburn, Ala. 36830
Tel: (205) 826-4230

The Center is a research and training facility used by all departments of the University with any interest in the pure or applied aspects of the nuclear science field.

AREAS OF INTEREST: Nuclear science; radioisotope and radiation applications.

HOLDINGS: The Center has access to the complete facilities of the University Library, including the Atomic Energy Commission Depository Library.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

Water Resources Research Institute

0376 314 Nuclear Science Center
Auburn University
Auburn, Ala. 36830
Tel: (205) 826-5075

AREAS OF INTEREST: Water resources planning, publications, and research; water reuse; public and private water supply; rural, recreational, municipal, industrial, and agricultural water use; waterways; wells; detergents in water; hydraulics; hydrogeology; fluid mechanics; pesticides in water; control, abatement, sources, and effects of water pollution; municipal and industrial wastes; waste treatment; waste water; water analysis; water chemistry; water conservation; water cycle; water microbiology; water purification; water quality; water reclamation; soil-water relations; salt water intrusion; reservoirs: rivers and streams; water runoff; irrigation; lakes; limnology; fish diseases; eutrophication; aquifers; aquatic biology; aquatic ecology; aqueous solutions; ground water.

HOLDINGS: Books, maps, project records, reports, journals, newsletters, bibliographies, pamphlets.

PUBLICATIONS: Bulletin (research reports), pamphlets, annual report.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite use of collection.

AUGUSTANA COLLEGE

Division of Natural Sciences

0377 Augustana College
Sioux Falls, S. Dak. 57102
Tel: (605) 336-4111

AREAS OF INTEREST: Chemistry; physics; mathematics; biology.

HOLDINGS: The Division uses the College library's collections, which include over 50,000 books and 500 periodical titles.

INFORMATION SERVICES: Answers inquiries; provides advisory services. Services are provided free to some users and at cost to others.

AUTOMATION INDUSTRIES, INC. RESEARCH DIVISION

0378 P.O. Box 950
Boulder, Colo. 80302

Location:
1805 33d St.
Boulder, Colo.
Tel: (303) 443-6011

AREAS OF INTEREST: Nondestructive testing services and equipment/systems for evaluating such materials as metals, weldments, ceramics, composites, and wood in either raw or fabricated state, using such techniques as ultrasonic, radiography, infrared, eddy current, magnetic particles, etc.; development of testing and inspection techniques for Government and industry.

HOLDINGS: Several hundred various items of nondestructive testing equipment; 1,700 technical reports; 580 data compilations; 1,800 photos; 900 slides; 500 books; a limited number of standards and specifications, reviews, periodicals, and press releases; motion pictures.

PUBLICATIONS: Brochures, pamphlets, bulletins, catalogs, reprints, annual report.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides literature-searching, bibliographic, and consulting services; prepares analyses and evaluations; permits onsite use of collection.

AUTOMOBILE MANUFACTURERS ASSOCIATION, INC.

Patent Department Library

0379 Automobile Manufacturers Association, Inc.
320 New Center Bldg.
Detroit, Mich. 48202
Tel: (313) 872-4311

AREAS OF INTEREST: Automobiles, including parts and accessories; automotive history.

HOLDINGS: 850,000 patents; 14,500 periodicals in bound volumes; 4,000 textbooks; 600 reference books.

PUBLICATIONS: *Automobiles of America* (revised every 5 years).

INFORMATION SERVICES: Answers inquiries; provides reference services to Association member companies. Facilities are not generally open to the public, but requests from writers and researchers are given individual consideration.

AUTOMOTIVE ELECTRIC ASSOCIATION

0380 16223 Meyers Rd.
Detroit, Mich. 48235
Tel: (313) 862-6336, 862-6337, or 862-6338

AREAS OF INTEREST: The manufacture, distribution, and service of electrical equipment and components and fuel systems and components for use in automobiles, trucks, tractors, and other motorized equipment.

HOLDINGS: Standards and specifications, periodicals, newsletters, pamphlets, press releases.

PUBLICATIONS: Reports, standards and specifications, manuals, catalogs, membership directory, charts and diagrams, handbook, brochure.

INFORMATION SERVICES: Answers inquiries; makes referrals.

397-718 O-LT - 71 - 7

AUTOMOTIVE INFORMATION SERVICE, INC.

0381 P.O. Box C
Woodmere, N.Y. 11598
Tel: (516) 599-2881

AREAS OF INTEREST: The automotive industry in all its phases, in the United States and overseas, including indirect matters such as traffic control.

HOLDINGS: Extensive files and resources.

PUBLICATIONS: Brochure.

INFORMATION SERVICES: Researches and answers confidentially all kinds of commercial and technical inquiries; provides special news coverage for foreign automotive press. A fee is charged for all services.

AUTOMOTIVE SAFETY RESEARCH PROGRAM

see Pennsylvania State University

AVCO CORP.

Avco-Everett Research Laboratory

0382 Avco Corp.
2385 Revere Beach Parkway
Everett, Mass. 02149
Tel: (617) 389-3000 Ext. 617

AREAS OF INTEREST: Magnetohydrodynamics and magnetohydrodynamic power generation; plasma physics; reentry physics; gas dynamics; hypersonic aerodynamics; ablation; chemical kinetics; shock tube technology; satellite recovery technology; electric propulsion for space flight; cryogenics; superconductivity; laser research.

HOLDINGS: 8,500 books; 400 current periodical titles; 3,500 bound periodicals; 500,000 reports in microfiche form; 51,000 hard copy reports; films, photos, maps, charts, data.

INFORMATION SERVICES: Answers technical inquiries; makes interlibrary loans whenever possible.

Electronics Division--Tulsa Operations

0383 Avco Corp.
10700 East Independence
Tulsa, Okla. 74115
Tel: (918) 437-1766

AREAS OF INTEREST: Spacecraft instrumentation; space science; space environment effects; chemical analytical services; mass spectrometric services; mass spectrometers; shock test equipment; electronic fabrication; vacuum equipment, including ultra-high vacuum equipment; space simulation equipment; containerized transportation systems; frozen food transportation systems; liquid oxygen containers; cryogenic containers; radiation dosimeters.

HOLDINGS: 570 books; 4,800 reports; journals (*Physical Review* from 1913 to present).

INFORMATION SERVICES: Provides reference services; lends materials if the information sought is not proprietary or restricted by Government regulations.

Gas Turbine Library

0384 Avco Corp.
550 South Main St.
Stratford, Conn. 06497
Tel: (203) 378-8211

AREAS OF INTEREST: Research, development, and manufacture of aviation and industrial gas turbines and their components, including internal aerodynamics, design, tests and test facilities, metallurgy of related materials, missile reentry vehicles, structural components, rocket chambers, and nose cones.

HOLDINGS: Books, journals, reports, films, photos, patents, data.

PUBLICATIONS: Technical reports, proceedings, standards and specifications, data handbook.

INFORMATION SERVICES: Provides reference services to Government agencies; permits limited onsite use of collection by Government contractors, subject to the approval of the appropriate Department of Defense office.

Ordnance Division Technical Library

0385 Avco Corp.
Sheridan St.
Richmond, Ind. 47374
Tel: (317) 962-5511 Ext. 450

AREAS OF INTEREST: Electronics; ordnance; airborne and ground radar; infrared communications equipment; explosives; propellants; guns; ammunition; missile components; guidance and control equipment; arming and fusing of missiles.

HOLDINGS: 2,000 books; 50 journals; 10,000 reports; data.

INFORMATION SERVICES: Provides reference services in response to telephone requests; makes interlibrary loans, subject to security regulations; permits onsite use of literature collection.

Spaceflight Programs Office

0386 Avco Corp.
6501 East Admiral Pl.
Tulsa, Okla. 74115
Tel: (918) 835-6911

AREAS OF INTEREST: Physical and space sciences.

HOLDINGS: 224 books; 280 reports; journals. The Office also has a complete collection of the *Physical Review* from 1913 to present.

INFORMATION SERVICES: Provides reference services; lends materials if the information desired is not proprietary or restricted by Government regulations.

Systems Division

Research Library

0387 Systems Division
Avco Corp.
201 Lowell St.
Wilmington, Mass. 01887
Tel: (617) 657-3575

AREAS OF INTEREST: Missiles; satellites; communications; electronics; environmental testing; flight simulation; operations analysis; hypersonic instrumentation; specialized research equipment; aerodynamics; human engineering; oceanographic instrumentation; computer services.

HOLDINGS: 25,000 books; 650 journal titles; 50,000 reports; 250,000 reports on microfiche; films, photos, maps, charts, patents, data.

PUBLICATIONS: *KWIC (Key-Word-In-Context) Index to Avco Reports*; *Bibliography of Bibliographies*; *Journals Held in Research Libraries, Wilmington and Lowell.*

INFORMATION SERVICES: Answers brief reference inquiries; makes interlibrary loans.

AVIATION DEVELOPMENT COUNCIL

0388 Hanger No. 2 (U.A.L.), Room 324
LaGuardia Airport
Flushing, N.Y. 11371
Tel: (212) 457-7890

AREAS OF INTEREST: Analysis and evaluation of air traffic patterns and procedures in relation to airports in the New York City area; promotion of understanding by local communities of problems involved in air traffic patterns and procedures; noise abatement.

PUBLICATIONS: Reports, press releases.

INFORMATION SERVICES: Answers brief inquiries.

BACKGROUND ANALYSIS CENTER

see University of Michigan

BAILEY METER CO.

0389 29801 Euclid Ave.
Wickliffe, Ohio 44090
Tel: (216) 943-5500

AREAS OF INTEREST: Mechanical, pneumatic, electrical, sanitary, civil, and atomic engineering; instruments, controls, process computers, and information systems for power plants and industrial processes.

HOLDINGS: 2,000 books; 10,000 reports; 250 periodical titles; 10,000 abstracts; 1,800 rolls of film; 8,500 microcards.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services for fee; provides reference services; permits onsite use of literature collection.

BALLISTIC MISSILE RADIATION ANALYSIS CENTER

see University of Michigan

BALLOON CLUB OF AMERICA

0390 c/o Peter Pellegrino, President
RD 1
Newtown, Pa. 18940
Tel: (215) 673-7626 (ask for Peter Pellegrino)

AREAS OF INTEREST: Flying and operating free balloons.

PUBLICATIONS: *Ballooning* (journal).

INFORMATION SERVICES: Answers inquiries; provides consulting services. Services are normally free, but there may be a consulting fee in some cases.

BALTIMORE DEPARTMENT OF PUBLIC WORKS

Bureau of Engineering

Water Division

0391 Bureau of Engineering
Baltimore Department of Public Works
300 Municipal Bldg.
Baltimore, Md. 21202
Tel: (301) 752-2000

AREAS OF INTEREST: Operation and management of municipal water works; water supply; water quality; filtration; chlorination; sonic leak surveys; telemetering devices; water for recreational use.

HOLDINGS: Project records, photos, slides, standards and specifications, journals, clippings.

PUBLICATIONS: Brochure, annual report.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference.

Bureau of Utility Operations

Sanitation Division

0392 Bureau of Utility Operations
Baltimore Department of Public Works
817 Calvert Bldg.
Baltimore, Md. 21202
Tel: (301) 752-2000 Ext. 444

AREAS OF INTEREST: Collection and disposal of solid wastes.

HOLDINGS: Over 50,000 reports.

PUBLICATIONS: Reports, directories.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services for fee.

BARIUM AND CHEMICALS, INC.

0393 P.O. Box 218
Steubenville, Ohio 43952

Location:

Riverview Pl.-State Route 7, North
Steubenville, Ohio
Tel: (614) 282-9776

AREAS OF INTEREST: Chemical technology on barium, strontium, and other alkaline earth chemicals.

HOLDINGS: Books, journals, reports, patents, data.

INFORMATION SERVICES: Permits onsite reference upon approval of manager.

BATTELLE MEMORIAL INSTITUTE

Battery Information Index

0394 Battelle Memorial Institute
Columbus Laboratories
505 King Ave.
Columbus, Ohio 43201
Tel: (614) 299-3151

AREAS OF INTEREST: Sealed aerospace batteries; nickel-cadmium, silver-zinc, silver-cadmium, lithium, and zinc-air batteries; thermal analyses; electrolyte analyses; electrode preparation; accelerated life testing; battery cycling data and apparatus; failure mechanisms and failure analysis procedures.

HOLDINGS: Books, journals, patents, industrial literature, technical symposium papers, bibliographies, reports on Government-sponsored research (hard copy and/or microfiche where available).

PUBLICATIONS: *Battery Information: Personalizing This Emerging Resource* (Technical Report AFAPL-TR-69-40, May 1969; AD 853 350).

INFORMATION SERVICES: Provides personalized information services to project members on various phases of battery technology; provides coordination and standardization of technically-evaluated engineer-generated subject indexes; performs literature searches; conducts monthly engineer conferences with each participating user; disseminates, in microfiche form, accessions lists of recently acquired battery documents and various indexes to the collection of battery literature, including subjects, authors, facilities, patent numbers, Government-sponsored contracts, and AD- and N-Numbers to Government reports.

Cobalt Information Center

0395 Battelle Memorial Institute
Columbus Laboratories
505 King Ave.
Columbus, Ohio 43201
Tel: (614) 299-3151

AREAS OF INTEREST: Uses of cobalt, its alloys, and its chemical compounds in fabrication, development, and research.

HOLDINGS: Books, journals, reports, patents, films, photos, data, articles, nonprinted material, major foreign literature, research reports from Centre d'Information du Cobalt, S.A. Brussels, Belgium (an organization that subcontracts to the Columbus Laboratories of Battelle Memorial Institute).

PUBLICATIONS: *Cobalt* (quarterly, published in English, French, and German); *Alloy Digest Sheets on Cobalt Containing Alloys* (data sheets for over 150 different alloys); reprints, newsletters, accessions lists, technical bibliographies, review journals, proceedings, state-of-the-art reviews, indexes, technical instruction articles.

INFORMATION SERVICES: Answers inquiries; provides reference, consulting, literature-searching, duplication, and translating services without charge; participates in technical expositions and seminars; provides speakers and films to industry and technical and educational groups.

Copper Data Center

0396 Battelle Memorial Institute
Columbus Laboratories
505 King Ave.
Columbus, Ohio 43201
Tel: (614) 299-3151 Ext. 1467

The Copper Data Center is sponsored by the Copper Development Association Inc.

AREAS OF INTEREST: Copper technology from refining of metal through end-use performance, including such materials as copper, copper-base alloys, iron and steel with copper as an alloying element, copper chemicals, competitive materials, and materials and processes used in insulated wire and cable.

HOLDINGS: 5,000 documents.

PUBLICATIONS: *Extracts of Documents on Copper Technology* (5 a year), *Coordinate Index to Documents on Copper Technology* (3 a year), and *Thesaurus of Terms on Copper Technology* (all available only to members of the Copper Development Association); technical reports and data compilations (available to anyone).

INFORMATION SERVICES: Answers technical inquiries from anyone.

Defense Ceramic Information Center

0397 Battelle Memorial Institute
Columbus Laboratories
505 King Ave.
Columbus, Ohio 43201
Tel: (614) 299-3151

AREAS OF INTEREST: Borides, carbides, carbon (graphite), nitrides, oxides, sulfides, silicides, as well as selected intermetallic compounds, metalloid elements and glasses in the form of monophase and polyphase ceramic bodies, coatings, fibers, composites, and foams; applications, property and performance data, processing and fabricating methods, testing methods, and fundamental aspects of processing and behavior of these materials.

HOLDINGS: Accessions of Government reports and open literature, including foreign, which are indexed and abstracted for use at the Center.

PUBLICATIONS: *The Ceramic Awareness Bulletin* (bimonthly); a continuously updated databook, "Engineering Properties of Ceramics"; indexed listings of current Government projects, "Ceramics R&D Programs" (annual); periodic reviews on state-of-the-art reports on selected topics.

INFORMATION SERVICES: Answers technical inquiries; provides technical advisory services. Services are available to U.S. Government agencies, their contractors, suppliers, and others in a position to assist the defense effort.

Defense Metals Information Center

0398 Battelle Memorial Institute
Columbus Laboratories
505 King Ave.
Columbus, Ohio 43201
Tel: (614) 299-3151

AREAS OF INTEREST: Properties and processing of metals; refractory metals (columbium, tantalum, tungsten, molybdenum, chromium, vanadium, rhenium, and their alloys); platinum-group metals; light metals (titanium, beryllium, magnesium, and aluminum); high-strength, high-temperature alloys; high-strength steels; metal-matrix composites; corrosion and oxidation-resistant coatings.

HOLDINGS: Reports on Government-sponsored research, journals, patents, data, trade literature, books.

PUBLICATIONS: *Review of Recent Developments* (weekly); technical reports, memoranda, technical notes.

INFORMATION SERVICES: Answers inquiries; provides technical advisory services and information on current research and development in metals to producers and fabricators of defense metals, to Government agencies, and to institutions involved in the defense effort. Unclassified information files are accessible for onsite use.

Ecological Information and Analysis Center

0399 Battelle Memorial Institute
Columbus Laboratories
505 King Ave.
Columbus, Ohio 43201
Tel: (614) 299-3151

AREAS OF INTEREST: Systems ecology; food-chain studies; bioenergetics; mathematical modeling of ecosystems; thermal affluent effects; population dynamics; radionuclide cycling in the environment.

HOLDINGS: Reports on Government-sponsored research, books, journal articles, map, charts, technical papers, academic theses.

INFORMATION SERVICES: Provides technical advisory services and information on environmental problems on an individual project basis. Information files are accessible for onsite use.

Information Research Center

0400 Department of Economics and Information Analysis
Battelle Memorial Institute
Columbus Laboratories
505 King Ave.
Columbus, Ohio 43201
Tel: (614) 299-3151 Ext. 1698 or 3309

AREAS OF INTEREST: Information activities of specific scientific and engineering disciplines, including social sciences and management; management of information, including document-record storage and retrieval, information storage and retrieval, abstracting, indexing, thesauri, dual dictionaries, information systems and centers, secondary sources, machine processing of information, motion pictures, and conferences; fundamentals of human communication, including linguistics, translation, and learning.

HOLDINGS: Over 25,000 items selected from journals, books, reports, proceedings, newspapers, advertisements, conference programs, and unpublished material.

INFORMATION SERVICES: Provides specific, substantive answers to technical questions; provides information on current research and development; provides references to scientific or technical documents; publishes accrued information; renders technical evaluation of the accuracy, quality, and/or significance of information; occasionally prepares state-of-the-art reviews and correlations of information and provides technical assistance services. Some services are provided free; extensive service may be arranged on a contractual basis.

Library

0401 Battelle Memorial Institute
Columbus Laboratories
505 King Ave.
Columbus, Ohio 43201
Tel: (614) 299-3191

AREAS OF INTEREST: Mechanical engineering, including materials, power, structure, instrumentation, heating and cooling, fluid and solid mechanics, thermodynamics, design and development, mechanical dynamics, product and manufacturing engineering, experimental methods, and building materials; chemical engineering, including processes, electrical, chemical-metallurgical, pilot plant design, electrolytic forming and machining, devices, materials concentration, separating, and high temperature kinetics; ceramics, including nuclear applications, building materials, porcelain enamels, refractories, and glass; metallurgy, including physical, powder-and-fiber, mechanical, extractive, ferrous, nonferrous, practice, metal joining, working, science, and engineering; technology, including fuel, textile and fiber, leather, wood, pulp and paper, lubricant, petroleum, welding, and graphic arts; mineralogy and microscopy, including processes and ores; aeronautics, including space technology; electronics, including devices, components, systems, computers, processing techniques, properties of materials, circuit design and development, reliability engineering, and communications science; nuclear energy, including materials, radiation, shielding, engineering, reactor technology, and radioisotopes; chemistry, including organic, polymer, inorganic, surface, physical, petroleum, rubber and plastics, organic coatings, and catalysts; physics, including mathematical, applied, solid state, and nuclear; biosciences, including biochemistry, biophysics, agricultural chemistry, food technology, microbiology, immunology, and pharmaceutical chemistry; economics, including industrial, area, agricultural, marketing, and research and development preplanning; psychology, including engineering, sensory, personnel, and human factors research; information research, including operations research; oceanology; environmental sciences; transportation.

HOLDINGS: Over 125,000 books and bound journals, 75,000 reports, 28 drawers of microfilm and microcards, and 3,000 current journals; 11 current newspapers; patents, films, photos, maps, charts. In addition to the central library, the Institute maintains the following specialized libraries: the Slavic Library, which houses Russian and other Slavic publications, including many cover-to-cover translations of Russian technical journals; the Systems and Electronics Library, which maintains a special collection, particularly catalogs and specifications, in the fields of electronics and electrical engineering; the Economics Library, which specializes in engineering economics, market research, and research administration; and the Classified Library, which maintains the collection of classified documents.

PUBLICATIONS: Accessions lists.

INFORMATION SERVICES: Answers inquiries; provides technical advice on the planning of libraries and information centers; makes interlibrary loans, within certain limits; provides literature-searching and duplication services.

Measurement Laboratory Information Service

0402 Battelle Memorial Institute
Columbus Laboratories
505 King Ave.
Columbus, Ohio 43201
Tel: (614) 299-3151 Ext. 1894

AREAS OF INTEREST: Physical measurements; instrumentation; measurement standards related to the National Bureau of Standards.

HOLDINGS: 210 books; 420 reports; 5,000 manufacturers' literature; 350 standards and specifications; periodicals.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, reference, and bibliographic services for fee; permits onsite reference.

Pacific Northwest Laboratory Technical Library

0403 Battelle Memorial Institute
P.O. Box 999
Richland, Wash. 99352
Tel: (509) 942-1111 Ext 3611

AREAS OF INTEREST: Nuclear science; engineering; physics; chemistry; mathematics; metallurgy; radiological sciences; anesthetics; carcinogens; aerosols; cigarettes; virology; particles; blood abnormality; cancer; teratism; water pollution; emphysema.

HOLDINGS: 50,000 books; 1,800 periodical titles; 22,000 bound periodical volumes; 325,000 technical reports (125,000 in microform).

INFORMATION SERVICES: Answers inquiries; provides reference, consulting, and literature-searching services by arrangement; makes referrals; makes interlibrary loans; permits onsite use of collection by arrangement.

RACIC

0404 Battelle Memorial Institute
Columbus Laboratories
505 King Ave.
Columbus, Ohio 43201
Tel: (614) 299-3151 Ext. 3116

The Center, under a contract with the Advanced Research Projects Agency of the Department of Defense, collects, analyzes, stores, and disseminates information concerning overseas defense research.

AREAS OF INTEREST: Overseas defense, counterinsurgency, and limited war; communications and electronics; weapons, munitions, and armor; air, ground, and water mobility; surveillance and reconnaissance; target acquisition; night operations; tactics; transportation systems; riverine warfare; border security; operations analysis; counterinfiltration; power sources; military medical technology, food technology, and civic action; military chemistry; environment.

HOLDINGS: Books, journals, reports, correspondence.

PUBLICATIONS: Technical summaries, bibliographies, literature surveys, accessions list.

INFORMATION SERVICES: Provides quick-response answers to technical inquiries in the form of documented information and/or analysis of problems; makes referrals where appropriate; permits onsite reference. All services are limited to Department of Defense agencies and laboratories and their contractors and are subject to the approval of the Advanced Research Projects Agency.

Radiation Effects Information Center

0405 Battelle Memorial Institute
Columbus Laboratories
505 King Ave.
Columbus, Ohio 43201
Tel: (614) 299-3151 Ext. 2553

AREAS OF INTEREST: Effects of space radiation, radiation from nuclear propulsion and auxiliary power systems in aerospace vehicles, and nuclear weapons on nuclear-powered and other aerospace vehicles, materials, devices, and systems (excluding biological systems).

PUBLICATIONS: State-of-the-art reviews, monthly accessions list.

INFORMATION SERVICES: Answers technical inquiries concerning current research and development projects and radiation effects data; provides engineering and reference services; prepares bibliographies and compilations. Pertinent literature is available for onsite use. Services are primarily for Government agencies and their contractors, but may be made available to others as the need arises.

Strategic Technology Office Information Analysis Center (STOIAC)

0406 Battelle Memorial Institute
Columbus Laboratories
505 King Ave.
Columbus, Ohio 43201
Tel: (614) 299-3151 Ext. 2041 or 2671

AREAS OF INTEREST: New techniques, approaches, and technologies in the field of strategic technology, including technical assessment and systems studies, midcourse and reentry measurements and analysis, optics and lasers, weapons (including nuclear) concepts and effects, advanced technology, over-the-horizon radar technology, supporting research, ballistic missile defense, penetration aids, vulnerability, electromagnetic technology, decoy technology, and other related areas.

HOLDINGS: 18,000 classified and unclassified technical reports, produced by and for the Government in research and development projects pertinent to STOIAC. Special files based upon detailed indexing have been developed to enable rapid access to information in the collection.

PUBLICATIONS: State-of-the-art reports, technical summaries.

INFORMATION SERVICES: Provides technical consulting and reference services to persons specified by the Department of Defense. STOIAC facilities are accessible to personnel of the Advanced Research Projects Agency (ARPA) and other governmental agencies. Visit clearances should be directed to the Battelle Security Office. In addition, ARPA-approved Government contractors may have access to STOIAC. A visit clearance from the Security Office of the visitor's company, bearing the approval of the visitor's Contracting Officer, should be directed to the Battelle Security Office as early as possible in advance of the anticipated visit.

William F. Clapp Laboratories

0407 Battelle Memorial Institute
Washington St.
Duxbury, Mass. 02332
Tel: (617) 934-5682

AREAS OF INTEREST: Marine research; oceanography; marine microbiology; marine ecology; biomedical research utilizing marine organisms; cultivation, collection, holding, and shipping of marine animals for laboratory use; algae culture; pollution assay of marine waters; thermal pollution, histochemical and cytochemical effects of specific pollutants and toxicants upon sensitive stages of marine organisms; seafarming, including engineering aspects of shellfish farming; toxicology of shellfish and finfish; anticarcinogens of marine origin; corrosion, fouling, and marine destruction of materials in relation to transportation, construction, desalination, and similar activities; power plant and industrial utilization of estuarine waters.

HOLDINGS: A technical library of 1,000 books, 100 periodical titles, technical reports, and reprints.

PUBLICATIONS: Reports, reviews, original research articles in scientific journals.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference, consulting, literature-searching, and duplication services on a cost-reimbursement basis; permits onsite reference by qualified investigators.

Facilities include laboratories equipped for research in algae culture, shellfish culture and genetics, histochemistry, microbial ecology, marine deterioration and fouling, endocrinology-biomedical, and physiological ecology; water sources and systems providing constant supplies of salt and fresh water; and craft for collection of marine samples.

BAY AREA AIR POLLUTION CONTROL DISTRICT

0408 939 Ellis St.
San Francisco, Calif. 94109
Tel: (415) 771-6000

AREAS OF INTEREST: Air pollution, including characteristics, sources, and effects of air pollutants, and sampling, analytical, and research methods; equipment and processes for controlling air pollution; health impairment from and legal aspects of air pollution; meteorology in relation to air pollution.

HOLDINGS: Over 15,000 articles on microfilm; a collection of hard copy material, such as books, journals, and reports.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans of hard copy material; permits onsite reference. Copies of the Uniterm index to the library collections are located at the Robert A. Taft Sanitary Engineering Center in Cincinnati, Ohio, the New York State Air Pollution Control Board in Albany, New York, and 14 other air pollution agencies and universities. The index cards are sold on subscription.

BECKMAN INSTRUMENTS, INC.

Research Library

0409 Beckman Instruments, Inc.
2500 Harbor Blvd.
Fullerton, Calif. 92634
Tel: (714) 871-4848 Ext. 358 or 359

AREAS OF INTEREST: Scientific instruments; electronics; mathematics; physics; medical electronics; optics; spectroscopy; gas chromatography; clinical chemistry; oceanography; astronautics.

HOLDINGS: 8,000 books; 10,000 bound journals; 475 current periodical subscriptions; 32,000 reports; 1,200 microfiche; films, photos, charts, data.

PUBLICATIONS: Computer-produced index to all Company-generated reports (monthly); accessions list (monthly).

INFORMATION SERVICES: Permits onsite reference to unclassified material.

BELDING HEMINWAY CO., INC.

Research Center

0410 Belding Heminway Co., Inc.
P.O. Drawer 28
Putnam, Conn. 06260

Location:

Grosvenor Dale, Conn.
Tel: (203) 926-2784

AREAS OF INTEREST: Textiles and polymer science; related areas of physical science.

HOLDINGS: 1,000 books; bound periodicals.

INFORMATION SERVICES: Lends some literature materials; provides limited duplication services; permits onsite use of collection by arrangement.

BELFOUR STULEN, INC.

Mechanical Properties Data Center

0411 Belfour Stulen, Inc.
13919 West Bay Shore Dr.
Traverse City, Mich. 49684
Tel: (616) 947-4500

AREAS OF INTEREST: Mechanical properties of structural materials, with major emphasis on metal alloys test data; formulation, processing, test procedures, and environment of materials; statistical evaluation of materials data.

HOLDINGS: About 4.2 million mechanical properties data points (a data point is defined as a single value for a given property), with approximately 50,000 data points being added to the collection each month; 30 magnetic tapes; 700,000 punched cards; 1,700 specifications; 1,250 manufacturers' and producers' data sheets; 10,000 technical reports; 500 texts and references.

PUBLICATIONS: Reports, state-of-the-art reviews, data handbooks, bibliographies, annual revisions and supplements to *Aerospace Structural Metals Handbook*.

INFORMATION SERVICES: Provides detailed tabular or graphic data displays in answer to specific inquiries. Unclassified materials data are presented with pertinent variables and descriptive information. Other services, including consultation and special data analyses programs, are also available. Services are available to Government agencies and industry. All non-Government users are charged a basic fee, which defrays a small part of Air Force supported search costs.

BELL AEROSYSTEMS CO.

0412 P.O. Box 1
Buffalo, N.Y. 14240
Tel: (716) 297-1000

AREAS OF INTEREST: Jet-propelled vertical-rising aircraft; ducted-fan vertical-rising aircraft; automatic all-weather landing systems; electronic guidance equipment for guided missiles and aircraft; rocket engines and rocket reaction controls; air cushion vehicles.

HOLDINGS: 70,000 reports; 13,000 books; 440 periodicals; pamphlets, maps, charts, films, photos.

PUBLICATIONS: *Rendezvous* (bimonthly).

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans; permits onsite reference in Technical Library.

BELL HELICOPTER CO.

0413 P.O. Box 482
Fort Worth, Tex. 76101

Location:

Texas Highway 183
Hurst, Tex.
Tel: (817) 280-3608

AREAS OF INTEREST: Helicopter engineering; aerodynamics; aircraft structures; chemistry; electronics; flight safety; metallurgy; physics; power plants; human engineering; weapons systems.

HOLDINGS: 2,000 books; 15,000 technical reports; 500 bound journals; 100 journal titles.

INFORMATION SERVICES: Answers brief inquiries; makes interlibrary loans; provides duplication services.

BELL & HOWELL CO.

Research Laboratories Library

0414 Bell & Howell Co.
360 Sierra Madre Villa
Pasadena, Calif. 91107
Tel: (213) 795-8601

AREAS OF INTEREST: Audiovisual methods; education; photography; photographic equipment; cinematography; magnetic tape recording; electronics; automotive engineering; instrumentation; solid state physics; mathematics; mass spectrometry; gas chromatography; chemistry.

HOLDINGS: 11,000 books; 450 periodical titles; 17,000 reports.

PUBLICATIONS: *Scanner* (semimonthly); *Periodical List* (annual).

INFORMATION SERVICES: Makes interlibrary loans; permits onsite use of collection by arrangement.

BELOIT COLLEGE LIBRARIES

Herbert V. Kohler Science Library

0415 Beloit College
Beloit, Wis. 53511
Tel: (608) 365-3391 Ext. 226

AREAS OF INTEREST: Biology; chemistry; geology; mathematics; physics.

HOLDINGS: 11,000 books; 133 journal titles; special collection of State geological surveys. The Library is a depository for U.S. Government documents and for U.S. Geological Survey and U.S. Army maps.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference.

BENDIX CORP.

Research Laboratories Library

0416 Bendix Center
Southfield, Mich. 48075
Tel: (313) 352-7720 or 352-7721

AREAS OF INTEREST: Thin-film and solid state physics; laser technology and coherent optical processing techniques; special composite and friction materials; space environment effects and radiation-hardened electronics; electron multipliers; photoelectronics and phototube technology; mass spectrometers; space particle and field detectors; space instrumentation experiments; fluidic components and systems; applied mechanics and electromechanical techniques; thermal structure analysis and design; automotive brake systems; controls for rocket engines; advanced dynamic controls and mechanisms; aerospace guidance and control systems analysis; electromagnetic sensors and communications; microwave devices and instrumentation; digital systems and techniques; numerical control and manufacturing automation; automatic photomapping systems; vehicular diagnostic systems; pattern recognition.

HOLDINGS: 8,000 books and bound journals; 13,000 technical reports; 500 journal titles.

PUBLICATIONS: *Venturi Tube* (24 issues a year).

INFORMATION SERVICES: Makes interlibrary loans if submitted on American Library Association request form; permits onsite use of books and periodicals.

BENET R&E LABORATORIES

see Army, Department of the. Army Materiel Command. Army Weapons Command. Watervliet Arsenal

BENHAM-BLAIR & AFFILIATES

0417 6323 North Grand Blvd.
Oklahoma City, Okla. 73118

Tel: (405) 525-2353

AREAS OF INTEREST: Architecture; engineering; design of hospitals and buildings of all types; water systems; sewage systems; flood control and drainage projects; highways; bridges; airports; dams; power plants; electrical distribution systems; industrial waste treatment; water pollution control.

HOLDINGS: Books, periodicals, reports, maps, charts, project records, graphs, tables, punched cards, standards and specifications, newsletters, reprints, bibliographies, publication lists, pamphlets, press releases, clippings, photos, slides, films, magnetic tapes, computers, field survey instruments, drafting machines, data.

PUBLICATIONS: Reports, standards and specifications, maps, charts, graphs, tables, pamphlets, house organ (semiannual), photos, slides, press releases.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services for fee; permits onsite reference.

Facilities include a computer center housing a General Electric 255 computer and General Electric 430 computer.

BENJAMIN MOORE AND CO.

Central Laboratories Library

0418 Benjamin Moore and Co.
134 Lister Ave.
Newark, N.J. 07105
Tel: (201) 642-1200

AREAS OF INTEREST: Organic chemistry; oleoresinous paints; oils and synthetic resins; emulsions and latices; processing methods; paint chemistry; development of related equipment; paint manufacture and paint technology; polymer chemistry.

HOLDINGS: 850 books; journals, reports, patents, data.

PUBLICATIONS: Reports, data handbook.

INFORMATION SERVICES: Permits onsite reference; makes interlibrary loans.

BERKELEY PARTICLE DATA CENTER

see University of California, Berkeley. Lawrence Radiation Laboratory

BERNICE P. BISHOP MUSEUM LIBRARY

0419 P.O. Box 6037
Honolulu, Hawaii 96818

Location:
1355 Kalihi St.
Honolulu, Hawaii

AREAS OF INTEREST: Voyages and explorations, archeology, ethnology, geology, linguistics, and general and natural history of the Pacific region, including Polynesia, Melanesia, Micronesia, Australia, and adjacent areas of Indonesia and Southeast Asia.

HOLDINGS: 50,500 books; 22,494 separates and pamphlets; 750 manuscript items; 10,000 maps; 45,631 photographs; 39,131 negatives; 320 serial publications; 400 newspaper volumes; 181 microfilms; a collection of tape recordings and records of Pacific island music, chanting, and interviews.

INFORMATION SERVICES: Answers reference questions as time allows; provides limited duplication services; permits onsite reference by students and researchers.

BETHLEHEM STEEL CORP.

Schwab Memorial Library

0420 Bethlehem Steel Corp.
701 East 3d St.
Bethlehem, Pa. 18016
Tel: (215) 694-3325

AREAS OF INTEREST: All aspects of the steel industry, including ferrous metallurgy and civil, mechanical, architectural, and chemical engineering.

HOLDINGS: Books, journals, reports.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite reference.

BETZ LABORATORIES, INC.

0421 Gillingham and Worth Sts.
Philadelphia, Pa. 19124
Tel: (215) 744-2200

AREAS OF INTEREST: Water conditioning; cooling water treatment; boiler water treatment; antifoams; scale and corrosion control; industrial water supply; industrial wastes; air conditioning systems; chemical pumps; saline water conversion; sewage; spectroscopy.

HOLDINGS: 1,500 books; reports, journals, patents, textbooks, Federal and State Government publications, pamphlets, clippings.

PUBLICATIONS: *Betz Handbook of Industrial Water Conditioning* (1962); reports, product literature, data sheets.

INFORMATION SERVICES: Provides consulting services for fee; makes interlibrary loans; permits onsite reference by serious researchers.

BIG THREE INDUSTRIES

Tempil Division

0422 2901 Hamilton Blvd.
South Plainfield, N.J. 07080
Tel: (201) 757-8300

AREAS OF INTEREST: Temperature-indicating materials and refractory paints and coatings for high-temperature service; melting points; physical and chemical characteristics of compounds in the melted state; temperature measurement and indication.

HOLDINGS: Books, journals, reports, patents, charts, data.

PUBLICATIONS: Technical bulletins, data tables, and metallurgical charts (available free).

INFORMATION SERVICES: Permits onsite reference.

BILLIARD AND BOWLING INSTITUTE OF AMERICA

0423 717 North Michigan Ave.
Chicago, Ill. 60611
Tel: (312) 944-0205

AREAS OF INTEREST: Plans and specifications for billiard rooms and bowling lanes, including auxiliary equipment.

PUBLICATIONS: *BBIA Product Directory*; *BBIA Bulletin*; *Billiard and Bowling Information Aid.*

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

BINARY METAL AND METALLOID CONSTITUTION DATA CENTER

see IIT Research Institute

BIO-INSTRUMENTATION ADVISORY COUNCIL

see American Institute of Biological Sciences

BITUMINOUS COAL OPERATORS' ASSOCIATION

0424 303 World Center Bldg.
918 16th St. NW.
Washington, D.C. 20006
Tel: (202) 783-3195

AREAS OF INTEREST: Labor relations in the bituminous coal industry; mining safety; mining methods; bituminous coal industry's economic conditions; selected legislation.

HOLDINGS: Reports, periodicals, clippings, Government publications, data.

INFORMATION SERVICES: Answers special-purpose inquiries only; makes referrals.

BITUMINOUS COAL RESEARCH, INC.

0425 350 Hochberg Rd.
Monroeville, Pa. 15146
Tel: (412) 327-1600

Bituminous Coal Research, Inc. is an affiliate of the National Coal Association.

AREAS OF INTEREST: Coal research, mining, preparation, combustion, conversion, and processes; waste material utilization; air and water pollution control; analytical methods; energy resources and use; fuel engineering.

HOLDINGS: 1,700 books; 125 journals; 30,000 reports; articles, patents, films, photos, maps, charts, data. The Coal Mine Drainage Library, established by the Coal Industry Advisory Committee of the Ohio River Valley Water Sanitation Commission, contains more than 1,700 published and unpublished articles.

PUBLICATIONS: *Coal Research* (quarterly news journal, available at nominal cost from the National Coal Association, 1130 17th St. NW., Washington, D.C. 20036); *Mine Drainage Abstracts: A Bibliography* (prepared by BCR for the Pennsylvania Coal Research Board, available at nominal cost from the Department of Mines and Mineral Industries, Harrisburg, Pa. 17102); technical reports, proceedings, abstracts.

INFORMATION SERVICES: Provides consulting, reference, and duplication services; permits onsite reference.

BOATING INDUSTRY ASSOCIATION

0426 333 North Michigan Ave.
Chicago, Ill. 60601
Tel: (312) 263-7844

AREAS OF INTEREST: Boating, including inboard and outboard motor boats, sail boats, outboard motors, marine engines, boat trailers, and supplies; fuel tanks; boat electrical systems; engineering; boat launching ramps, marinas, and other facilities; safety; seamanship; water-skiing; insurance; freight rates and shipping; market statistics; regulations and laws; recreation; waterways; boat shows.

HOLDINGS: Reports, films, journals, standards and specifications, newsletters, pamphlets, press releases, directory, marketing data.

PUBLICATIONS: *Handbook of Boating Laws* (annual); *Engineering Manual of Recommended Practices* (annual); *Market Research Notebook* (annual); *Outboard Boating* (semimonthly); *Water Sport* (quarterly); *Statistical Report* (monthly).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

THE BOEING CO.

Aerospace Group Technical Library

0427 The Boeing Co.
P.O. Box 3999
Seattle, Wash. 98124
Tel: (206) 773-6400

AREAS OF INTEREST: Space flight and exploration; missiles; rocket engines and propulsion; electric and nuclear propulsion; metallurgy and nonmetallic materials; fatigue and corrosion; stress analysis; reliability; semiconductor technology; bionics; aerospace medicine; marine vessels and propulsion; communication systems; cryogenics; thermodynamics; systems management.

HOLDINGS: 12,000 books; 800 journals; 200,000 reports; films, photos.

PUBLICATIONS: Bibliography, accessions bulletin.

INFORMATION SERVICES: Makes interlibrary loans of unclassified, nonproprietary materials by arrangement.

Boeing Scientific Research Laboratories Library

0428 P.O. Box 3981
Seattle, Wash. 98124

Location:
1422 South Trenton St.
Seattle, Wash.
Tel: (206) 655-8307

AREAS OF INTEREST: Plasma physics; astrophysics; solid state physics; metallurgy; aerodynamics; propulsion; pure and applied mathematics; polymer chemistry.

HOLDINGS: 6,000 books; 500 periodicals; 10,000 reports; maps, charts.

PUBLICATIONS: Accessions list, bibliography, translations, Company union list of serial publications.

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans; permits onsite reference.

Wichita Division

Library

0429 Wichita Division
The Boeing Co.
Wichita, Kans. 67210
Tel: (316) 687-4247

AREAS OF INTEREST: Physics; chemistry, including organic, inorganic, and polymer; fluid flow; structures; electrical engineering; electronics; radar; industrial medicine; industrial psychology; operations research; industrial technology; personnel administration; industrial engineering; acoustics; infrared radiation.

HOLDINGS: 6,000 books; 70,000 reports; films, photos, maps, charts, data.

PUBLICATIONS: Accessions list, bibliographies.

INFORMATION SERVICES: Lends unclassified, nonproprietary material.

BOLT BERANEK AND NEWMAN INC.

0430 50 Moulton St.
Cambridge, Mass. 02138
Tel: (617) 491-1850

AREAS OF INTEREST: Acoustics, including architectural, physical, and engineering; psychoacoustics; noise and vibration control; physical sciences, including aerospace mechanics, signal processing, sonar systems, atmospheric physics, and oceanography; information science and technology, including computer systems and behavioral sciences; electrochemistry.

HOLDINGS: 3,000 books; 9,000 reports; journals, data.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Provides reference and consulting services as time permits; makes limited interlibrary loans.

BONNEVILLE POWER ADMINISTRATION

see Interior, Department of the

BOSTON EDISON CO. TECHNICAL LIBRARY

0431 1165 Massachusetts Ave.
Dorchester, Mass. 02125
Tel: (617) 442-9000

AREAS OF INTEREST: Mechanical, electrical, electronic, structural, nuclear, and civil engineering in the electric public utility field.

HOLDINGS: 1,000 books; 200 journal titles; 3,500 reports; data.

PUBLICATIONS: News journal, index, bibliographies.

INFORMATION SERVICES: Makes interlibrary loans in Boston area; permits onsite reference.

BOSTON UNIVERSITY

Department of Astronomy and Observatory

0432 Boston University
725 Commonwealth Ave.
Boston, Mass. 02215
Tel: (617) 353-2625 or 353-2626

AREAS OF INTEREST: Space physics; space astronomy; radio astronomy; stellar atmospheres; stellar interiors; stellar evolution; cosmology; experimental optics; history of astronomy; astronomy education.

HOLDINGS: *Palomar Sky Atlas*; other atlases and star catalogues; ephemerides; a research library with books and journals in astronomy and space science; astronomical slide collection and films; educational materials.

INFORMATION SERVICES: Provides consulting services in the areas of astronomy, astrophysics, space physics, history of astronomy, and astronomy education.

Facilities include two telescopes, a 7-inch refractor and a 12-inch reflector, different astronomical instruments, and an IBM 360/50 computer.

BOURNS/CAI, INC.

0433 550 West Northwest Highway
Barrington, Ill. 60010
Tel: (312) 381-2400

AREAS OF INTEREST: Aerial photo reconnaissance systems; aerial cameras; radar recording cameras; data annotation systems; electronic flash night illumination systems; navigational/reconnaissance viewfinders; weapons delivery sights; photographic processing and interpretation equipment; aerospace ground equipment; helicopter blade trackers; image motion sensors; camera controls and mounts; nontopographic photogrammetric equipment; aerial photography and photogrammetry; lenses and optical systems; field service engineering and training.

PUBLICATIONS: Product information sheets, reports.

INFORMATION SERVICES: Answers inquiries; makes available unclassified material.

The Company provides contract design and manufacturing services on a negotiated fee basis.

BOWDOIN COLLEGE

Department of Chemistry Library

0434 Bowdoin College
Hawthorne-Longfellow Library
Brunswick, Maine 04011
Tel: (207) 725-8731 Ext. 280

AREAS OF INTEREST: Chemistry.

HOLDINGS: 1,000 books; periodicals.

INFORMATION SERVICES: Answers inquiries; provides reference services; provides duplication services for fee; makes interlibrary loans; permits onsite use of collection.

BRAINCON CORP.

0435 P.O. Box 267
Marion, Mass. 02738

Location:

13 Shenandoah Rd.
Marion, Mass.
Tel: (617) 748-1085

AREAS OF INTEREST: Vehicles and instrumentation for marine research; oceangoraphic data gathering equipment; electromechanical aids; echo sounding and seismic surveys; echo-sounding V-fins; recording current meters; recording thermograph; radiocontrolled surface vehicles; inclinometers; electronic sensors; haired fairing; cables; timers; digital data acquisition systems; antipollution equipment.

HOLDINGS: 400 reference books; 60 films; 50 standards and specifications; 35 reviews; 80 pamphlets; data.

PUBLICATIONS: Standards and specifications, reviews, pamphlets.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services for fee; performs testing of underwater vehicles and instrumentations; permits onsite reference.

BRANDEIS UNIVERSITY

Gerstenzang Science Library

0436 Brandeis University
415 South St.
Waltham, Mass. 02154
Tel: (617) 894-6000 Ext. 348 or 552

AREAS OF INTEREST: Biochemistry (malignancy research, optical kinetics); biology; physics; mathematics; chemistry; astronomy.

HOLDINGS: 50,000 volumes; 700 current periodical titles; reports.

INFORMATION SERVICES: Answers inquiries; provides reference, literature-searching, and duplication services; makes interlibrary loans; permits onsite use of collection. Services are available to academic institution users and research associate users (a fee may be charged to research associate users).

BRANSON INSTRUMENTS CO.

0437 76 Progress Dr.
Stamford, Conn. 06904
Tel: (203) 324-6721

AREAS OF INTEREST: Ultrasonic nondestructive testing; ultrasonic cleaning; practical applications of ultrasound.

HOLDINGS: Small reference collection of books.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services; lends books; permits onsite use of collection in some instances. Services are free unless extensive efforts are required, in which case fees are negotiated.

C. F. BRAUN & CO. REFERENCE LIBRARY

0438 1000 South Fremont Ave.
Alhambra, Calif. 91802
Tel: (213) 282-1131

AREAS OF INTEREST: Chemical plants; engineering design and construction.

HOLDINGS: 5,000 books; 250 periodical titles; 5,000 reports.

INFORMATION SERVICES: Makes interlibrary loans on reciprocal basis; provides duplication services to librarians.

BRIDGEPORT PUBLIC LIBRARY

Technology and Business Department

0439 Bridgeport Public Library
925 Broad St.
Bridgeport, Conn. 06603
Tel: (203) 333-8551

AREAS OF INTEREST: Technology; engineering; mathematics; physics; chemistry; geology; business.

HOLDINGS: Books, periodicals, abstracts, standards and specifications, microfilms.

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans; permits onsite reference.

BRIGHAM YOUNG UNIVERSITY

High Pressure Data Center

0440 Clark Library, Room 574
Brigham Young University
Provo, Utah 84601
Tel: (801) 374-1211 Ext. 2530

AREAS OF INTEREST: High pressure research in the range above five kilobars into the megabar range.

HOLDINGS: Papers on high pressure research published since 1900, including translations from Russian and German; a bibliography of these papers on punched cards and magnetic tape, indexed by author and subject.

PUBLICATIONS: Bibliography of papers on high pressure research published since 1900 (1968); critical reviews on pressure scale and PVT data.

INFORMATION SERVICES: Answers brief inquiries; provides duplication services for fee.

Library

0441 Brigham Young University
Provo, Utah 84601
Tel: (801) 374-1211 Ext. 2906
(801) 374-1211 Ext. 2948 (Interlibrary Loan)

AREAS OF INTEREST: Chemical, civil, electrical, and mechanical engineering; geology; mathematics; physics; chemistry; computer science; bacteriology; botany; zoology; entomology; business; economics; education; sociology; government; psychology.

HOLDINGS: 900,000 books; 7,668 periodical titles; 4,500 technical reports; pamphlets. The Library is a depository for U.S. and Canadian Government publications.

INFORMATION SERVICES: Answers inquiries; makes referrals; makes interlibrary loans of nonreference monographic materials; provides duplication services for fee; permits onsite reference.

BROOKHAVEN NATIONAL LABORATORY

Associated Universities, Inc.

0442 Upton, Long Island, N.Y. 11973
Tel: (516) 924-6262

AREAS OF INTEREST: Nuclear physics; nuclear chemistry; solid state physics; nuclear medicine; biology; nuclear engineering; health physics; electronics and instrumentation; metallurgy.

HOLDINGS: 85,000 books and bound journals; 1,500 unbound journals; 100,000 AEC technical reports.

PUBLICATIONS: *Weekly Selected Reading List*; annual report, technical reports.

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans; permits onsite use of literature collection.

National Neutron Cross Section Center

0443 Brookhaven National Laboratory
Upton, Long Island, N.Y. 11973
Tel: (516) 924-6262 Ext. 2532

AREAS OF INTEREST: Neutron cross section experimental data; cross section evaluation and analysis; nuclear reaction theory.

HOLDINGS: Neutron cross section library maintained in form of original journals and reports, Xerox copies, graphs, private communications, and machine storage of data.

PUBLICATIONS: Two compilations of cross section data: BNL-325, *Neutron Cross Sections* and BNL-400, *Angular Distributions in Neutron-Induced Reactions*; Evaluated Nuclear Data File (ENDF) reports; newsletters, bibliographies.

INFORMATION SERVICES: Answers specific inquiries for tabulated data with output in tape, printout listing, or graphical display form; acquires and distributes, on request, digital computer cross section libraries made up by NNCSC personnel and by other reactor physics groups. Services are generally available to AEC, AEC contractor personnel, and to others involved in programs of interest to the AEC.

The work of the Center is sponsored by the U.S. Atomic Energy Commission. The Center is a merger of what was formerly the Cross Section Evaluation Center and the Sigma Center.

Research Library

0444 Brookhaven National Laboratory
Upton, Long Island, N.Y. 11973
Tel: (516) 924-6262 Ext. 2246

AREAS OF INTEREST: Physics, including high energy physics, neutron physics and nuclear structure, solid state physics, and low temperature physics; chemistry, including nuclear chemistry, structural and theoretical physics, inorganic chemistry, radiation and hot atom chemistry, isotope effects, analytical chemistry, and physical chemistry; biology, including genetics, general physiology, biochemistry, biophysics, molecular biology, and ecology; medical sciences, including industrial medicine, microbiology, biochemistry, physiology, medical physics, and hemotology; mathematics, including computer operations and programming research and applied mathematics research; nuclear engineering, including reactor physics, chemistry and chemical engineering, metallurgy and materials science, reactor engineering, hot laboratory operations, and radiation development; instrumentation and health physics, including meteorology and safety.

HOLDINGS: 45,000 books; 1,500 current periodicals; 50,000 AEC reports; 60,000 volumes of bound journals.

PUBLICATIONS: *Weekly Selected Reading List*; *Acquisitions List* (monthly).

INFORMATION SERVICES: Answers brief inquiries; provides limited reference services; makes interlibrary loans; permits onsite use of collection by appointment.

BROOKLYN ENGINEERS' CLUB

0445 117 Remsen St.
Brooklyn, N.Y. 11201
Tel: (201) 624-9246

AREAS OF INTEREST: All fields of engineering, from conception, design, and construction to operation, maintenance, and utilization, including the following: air conditioning; air pollution; architecture; automotive; aviation; biography; boilers; bridges; building codes; building structures; career guidance; chemical, including fine bulk and biologicals; computers; concrete; economics; electronics; electric lighting; electric power generation and distribution; elevated railroads; fire protection; foods; gas production and distribution; highways; history; instrumentation; landscaping; land surveys; locomotive engines and railroad cars; material testing methods; mining; optics; photography; professional ethics and responsibility; railroads; rapid transit systems; traffic; tunnels; sanitation fill; snow removal; snow melting; street cleaning; sewage treatment and disposal; soil mechanics; subways; urban planning; urban renewal; water aqueducts, dams, distribution systems, and reservoirs; welding.

HOLDINGS: 1,500 books; 450 bound journals; 500 reports; 50 periodicals; photographs and records of Brooklyn Bridge and other structures; special reports on universal datum plane for New York City, railroad and subway system construction, installation and design of gas, electric, water supply, and communication systems, and national and world resources.

PUBLICATIONS: *The Brooklyn Engineer* (8 a year); proceedings, technical reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and consulting services and bibliographic data; conducts forums on career guidance and technical meetings and forums; provides speakers to other groups; permits onsite reference.

BROOKLYN PUBLIC LIBRARY

Science and Industry Division

0446 Brooklyn Public Library
Grand Army Plaza
Brooklyn, N.Y. 11238
Tel: (212) 789-1212

AREAS OF INTEREST: Science and technology, including specialization in ornithology, anthropology, automobiles, chemistry, cooking, engineering geology, mathematics, radio, and television.

HOLDINGS: 200,000 books; 1,000 journals; reports, U.S. patent gazette, maps, charts.

PUBLICATIONS: *Service to Business and Industry* (9 a year from October to June).

INFORMATION SERVICES: Answers brief mail and telephone inquiries; provides duplication services for fee; makes interlibrary loans; permits onsite reference.

Fire Protection Collection

0447 Science and Industry Division
Brooklyn Public Library
Grand Army Plaza
Brooklyn, N.Y. 11238
Tel: (212) 789-1212

AREAS OF INTEREST: All areas of fire protection, including research, prevention, firefighting education, and science.

HOLDINGS: 5,000 books; journals, pamphlets, brochures, catalogs.

INFORMATION SERVICES: Answers inquiries; permits onsite reference. The collection is an integral part of the Science and Industry Division, whose collections can be used to answer technical questions regarding fires and fire protection that cannot be answered by the special collection.

BROOKS INSTITUTE

Undersea Research Division

0448 Brooks Institute
2190 Alston Rd.
Santa Barbara, Calif. 93103
Tel: (805) 969-2291

AREAS OF INTEREST: Applied undersea photographic technology program.

PUBLICATIONS: Reports, specifications, diving manual, motion pictures, photographic illustrations, filmstrips.

INFORMATION SERVICES: Answers inquiries free; provides consulting services for fee; tests and evaluates underwater photographic hardware and related items for fee.

Facilities include black-and-white photographic laboratories, color processing and printing laboratories, sound stages, a recording studio, and a pool for testing. The Division is operated primarily from two campuses in Santa Barbara and has a research facility located in Guaymas, Mexico. It offers an education course in applied undersea photographic technology and provides professional diving services, undersea photographic inspection, and engineering and research services on a contract basis.

BROWN CO. TECHNICAL LIBRARY

0449 650 Main St.
Berlin, N.H. 03570
Tel: (603) 752-4600 Ext. 522

AREAS OF INTEREST: Wood; wood pulp; pulping processes; printing kraft and connecting papers; packaging and food boards.

HOLDINGS: 2,500 books; 1,500 bound journals; pamphlets, patents, internal reports.

PUBLICATIONS: Occasional articles in periodicals.

INFORMATION SERVICES: Permits onsite reference.

BROWN UNIVERSITY

Department of Geological Sciences

0450 Brown University
Providence, R.I. 02912
Tel: (401) 863-2240 or 863-2241

AREAS OF INTEREST: Geological sciences, including geochemistry, geophysics, mineralogy, structural geology, paleontology, stratigraphy, petrology, and sedimentary petrology.

HOLDINGS: Topographical and geological map collection; Baker mineral collection.

PUBLICATIONS: Faculty research articles for publication in scientific periodicals; graduate student promotional material.

INFORMATION SERVICES: Answers inquiries; permits onsite use of collections.

Division of Applied Mathematics

0451 Brown University
Providence, R.I. 02912
Tel: (401) 863-2498; 2353, 2354, 2356, or 2358

AREAS OF INTEREST: Applied probability and mathematical statistics (computational probability; stationary stochastic processes; time-series analysis; decision and estimation theory; Markov processes; statistical meteorology); computer science and numerical analysis (art and theory of programming; programming systems; programming languages; computer graphics; computer-aided design; analysis and recognition of patterns; heuristic programming; linguistics; artificial intelligence; theory and practice of interpolation and approximation; numerical integration; application of functional analysis to numerical analysis; numerical aspects to control and systems theory; theory of splines); control and stability of dynamical systems (stability theory; optimal control; stochastic processes and control; control system design; nonlinear filtering); differential equations (ordinary, functional, partial, and stochastic differential equations and integral equations; qualitative theory of dynamical systems); fluid mechanics (linear and nonlinear visco-elastic flow and turbulence; kinetic theory of gases; plasma physics; equilibrium statistical mechanics; incompressible fluids; stability of wave trains; asymptotic methods); solid mechanics (theoretical and experimental research on wave propagation, brittle fracture, and cavitation; elasticity theory; continuum mechanics).

HOLDINGS: File copies of all reports and reprints of technical papers issued by the Division.

PUBLICATIONS: *Division of Applied Mathematics Technical Reports*; *Center for Dynamical Systems Technical Reports and Lecture Notes*; *Center for Computer and Information Sciences Technical Reports*.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services.

John Carter Brown Library

0452 Brown University
Providence, R.I. 02912
Tel: (401) 863-2725

AREAS OF INTEREST: History of science and technology.

HOLDINGS: 30,000 volumes; special collections of books, maps, and other material relating to America which was printed during the colonial period, and maps, broadsides, and papers of John Carter Brown and Ives Firm.

PUBLICATIONS: Report/monograph series; bibliographies.

INFORMATION SERVICES: Provides reference services; permits onsite reference.

Ladd Observatory

0453 Brown University
Providence, R.I. 02912
Tel: (401) 863-2110 or 521-5680

AREAS OF INTEREST: Astronomy.

HOLDINGS: 560 slides; bibliographies.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

BROWN UNIVERSITY

Physical Sciences Library

0454 Brown University
Providence, R.I. 02912
Tel: (401) 863-2127

AREAS OF INTEREST: Applied mathematics and mechanics, including elasticity, hydromechanics, and shock mechanics; astronomy, including descriptive astronomy and astrophysics; chemistry, including biochemistry, organic, inorganic, and physical chemistry, crystal structure, electron diffraction, and cryogenics; engineering, including science of materials, fluid mechanics, thermodynamics, photoelasticity, stress analysis, fatigue and creep of metals, microwave propagation, spectroscopy, nuclear engineering, radiation, electrophysics and communications, urban development, and sanitary engineering; mathematics, including history of mathematics, algebra, calculus, functions, differential equations, analytical methods, and geometry; geology, including geochemistry, geophysics, mineralogy, paleontology, igneous and metamorphic petrology, sedimentary petrology, stratigraphy and structural geology, geochronology, seismology and impact phenomena, mineral synthesis, remote sensing, and X-ray diffraction; physics, including solid state, optics, acoustics, surface physics, ceramics, and nuclear and high energy physics.

HOLDINGS: 225,000 books and journals; depository collections of NASA and AEC publications; internationally famous collection in mathematics; films, theses, abstract journals, indexes, bibliographies, encyclopedias, dictionaries, guidebooks, handbooks, microfilms.

INFORMATION SERVICES: Answers inquiries; provides reference services; provides duplication services, including printouts from microfilm and microfiche; makes interlibrary loans.

BUFFALO AND ERIE COUNTY PUBLIC LIBRARY

Science and Technology Department

0455 Buffalo and Erie County Public Library
Lafayette Square
Buffalo, N.Y. 14203
Tel: (716) 856-7525

AREAS OF INTEREST: Science; engineering; agriculture; military science.

HOLDINGS: 210,000 books and journals, including rare scientific books; 15,000 reports; U.S. patents (depository collection) and British patents (abridgments); early railroad surveys; standards; automobile shop manuals. The Library is a depository for Government documents.

INFORMATION SERVICES: Answers short reference letters and telephone requests; lends circulating material to Erie County residents; makes interlibrary loans; permits onsite reference. Photocopying and microfilm copying facilities are available.

BUILDING OFFICIALS CONFERENCE OF AMERICA, INC.

0456 1313 East 60th St.
Chicago, Ill. 60637
Tel: (312) 324-3400

AREAS OF INTEREST: Construction, including improvement of building regulations; new materials and safe construction techniques; public safety in construction and use of buildings.

HOLDINGS: 250 books; 425 standards; 180 reports on structural rating; 80 municipal building codes; 120 ordinances; 60 inspection forms.

PUBLICATIONS: *The Building Official and Code Administrator* (monthly magazine); *Bulletin* (bimonthly); *Basic Building Code*; *Basic Fire Prevention Code*; *Basic Plumbing Code*; *Basic Housing Code*; *Fire Resistance Ratings*; *Construction of One- and Two-Family Dwellings*; *Building Department Personnel Recommendations*; *Sample Forms for Building Department Operation*; *Sample Ordinances for Adopting Codes*; *Codes and Code Administration*; *Construction Inspection Operations Manual*.

INFORMATION SERVICES: Answers inquiries; provides consulting services to members only on code enforcement problems and interpretation of BOCA Codes; performs studies on new products, materials, and systems for members; examines building plans under code provisions for nominal fee; makes administrative surveys of code enforcement agencies on contract basis; offers training for code enforcement officials.

BUILDING STONE INSTITUTE

0457 420 Lexington Ave.
New York, N.Y. 10017
Tel: (212) 532-9477

AREAS OF INTEREST: Building stone industry; quarrying and fabrication; manufacture and architecture of natural stone constructions.

HOLDINGS: 90 samples of building stone; 1,300 photos; 35 standards and specifications; motion pictures, newsletters, preprints, reprints, pamphlets, press releases, clippings.

PUBLICATIONS: *Building Stone News* (monthly); pamphlets.

INFORMATION SERVICES: Answers inquiries; provides consulting and duplication services; identifies building stones; permits onsite reference; lends motion pictures.

THE BUNKER-RAMO CORP. LIBRARY

0458 31717 La Tienda Dr.
Westlake Village, Calif. 91360
Tel: (213) 889-2211 Ext. 2357 or 2358

AREAS OF INTEREST: Computers; electronics; physics; mathematics; linguistics; undersea warfare.

HOLDINGS: 15,000 books; 600 journals; 20,000 reports; maps, charts, data.

PUBLICATIONS: Accessions list, reports, standards and specifications, data handbook.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference at discretion of librarian.

BUREAU OF COMMERCIAL FISHERIES

see Interior, Department of the

BUREAU OF CUSTOMS

see Treasury, Department of the

BUREAU OF DOMESTIC COMMERCE

see Commerce, Department of

BUREAU OF ENGRAVING AND PRINTING

see Treasury, Department of the

BUREAU OF LAND MANAGEMENT

see Interior, Department of the

BUREAU OF MINES

see Interior, Department of the

BUREAU OF MOTOR CARRIER SAFETY

see Transportation, Department of. Federal Highway Administration

BUREAU OF OUTDOOR RECREATION

see Interior, Department of the

BUREAU OF PUBLIC ROADS

see Transportation, Department of. Federal Highway Administration

BUREAU OF RAILROAD SAFETY

see Transportation, Department of. Federal Railroad Administration

BUREAU OF RECLAMATION

see Interior, Department of the

BUREAU OF SPORT FISHERIES AND WILDLIFE

see Interior, Department of the

BUREAU OF THE CENSUS

see Commerce, Department of

BUREAU OF THE MINT

see Treasury, Department of the

BURNDY LIBRARY

0459 Norwalk,
Conn. 06852
Tel: (203) 838-4444

AREAS OF INTEREST: History of science, with emphasis on early electricity and magnetism.

HOLDINGS: 30,000 books; 316 incunables in science; autographed letters, manuscripts, medallions, photos, portraits, prints, machines (electrical), instruments.

PUBLICATIONS: Annual publications in the history of science (25 have been issued).

INFORMATION SERVICES: Provides portraits, prints, and text material to scholars and publishers; makes interlibrary loans; provides research in rare books in science (15th through the late 19th centuries). The Library is open to the public, but appointment must be made for use of library materials.

BURROUGHS CORP. LIBRARY

0460 DSSSG
Paoli, Pa. 19301
Tel: (215) 644-4700

AREAS OF INTEREST: Data processing; electronics; electrical engineering; mathematics; physics; business; management.

HOLDINGS: 10,000 books; 150 journals; 6,000 reports.

INFORMATION SERVICES: Makes interlibrary loans.

C&I/GIRDLER, INC.

Operations Division Library

0461 C&I/Girdler, Inc.
P.O. Box 174
Louisville, Ky. 40201

Location:

1721 South 7th St.
Louisville, Ky.
Tel: (502) 637-8701

AREAS OF INTEREST: Engineering, including chemical, electrical, mechanical, structural, civil, welding, ceramic, petroleum, pollution control, safety, and architectural; chemistry, including analytical, physical, inorganic, industrial, petroleum, agricultural, and organic; mathematics, including partial differential equations, statistics, regression analyses, simultaneous linear equations, and vector analyses; data processing, including information storage and retrieval, computer programming, time-sharing, and computer optimization; engineering commerce, including management, law, contracts, specifications, graphics, patents, and economics; instrumentation, including process control and instrument maintenance.

HOLDINGS: 1,350 books; 425 standards and specifications; 1,400 reports; 12 maps and charts; 1,050 preprints and reprints; 75 periodicals; 15 bibliographies; 6,300 patents; 3,500 manufacturers' catalogs and brochures; foreign language dictionaries, photos, slides, pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference, literature-searching, and duplication services; makes interlibrary loans. Services are available to other technical libraries only.

CABOT CORP.

Technical Information Center

0462 Cabot Corp.
Concord Rd.
Billerica, Mass. 01821
Tel: (617) 663-3455

AREAS OF INTEREST: Carbon black, including its manufacture, properties, and applications and related subjects, particularly science and technology of rubber, paint, ink, and plastics; white pigments and fillers, primarily titanium dioxide, silica, and alumina.

HOLDINGS: 5,000 books; 300 journal titles; patents, trade literature, extensive subject-classified file of abstracts covering worldwide literature in above areas.

INFORMATION SERVICES: Answers inquiries, provides reference services, and permits onsite use of the collections on a courtesy basis; makes interlibrary loans.

CALGON CORP. INFORMATION CENTER

0463 Box 1346
Pittsburgh, Pa. 15230
Tel: (412) 923-2345

AREAS OF INTEREST: Organic and inorganic chemistry; polymer chemistry; water and sewage treatment; food chemistry; detergents; oilfield water flooding; desalination; water pollution; corrosion.

HOLDINGS: 3,800 books; 26,000 reports; 350 journals; patents, photos.

PUBLICATIONS: Bibliography, translations, booklets.

INFORMATION SERVICES: Answers inquiries; provides reference, translation, literature-searching, bibliographic, and duplication services; makes direct and interlibrary loans; permits onsite reference.

CALIFORNIA AGRICULTURAL EXPERIMENT STATION

see University of California, Berkeley

CALIFORNIA DEPARTMENT OF AERONAUTICS

0464 Sacramento Executive Airport
Sacramento, Calif. 95822
Tel: (916) 445-2582

AREAS OF INTEREST: Aviation matters relating to California.

HOLDINGS: Files of airports of record; maps, charts.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

CALIFORNIA DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT

0465 1121 O St.
Sacramento, Calif. 95814
Tel: (916) 445-4775

AREAS OF INTEREST: Housing and community development needs in California; minimum dwelling construction standards and regulations for mobilehomes and mobilehome parks; assistance to local governments with redevelopment programs and in developing low-cost housing; development of housing for students and faculties of universities and colleges; statistics and research on housing and community development; information on Federal, State, and local laws applicable to housing and community development; securing of Federal financial aid for housing programs, for farm laborers and their families, for persons displaced by eminent domain actions, and for workers engaged in the lumber industry.

HOLDINGS: 250 standards and specifications; 17,500 project records; 150 technical reports; 1,500 data compilations; 100 books; newspapers, publication lists, pamphlets, press releases, clippings.

PUBLICATIONS: *H/CD News*; standards and specifications (mobilehome standards for mechanical and electrical equipment and installations are disseminated free; a fee is charged for other standards); brochure.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and limited bibliographic services; prepares analyses and evaluations.

CALIFORNIA DEPARTMENT OF PUBLIC HEALTH

Bureau of Sanitary Engineering

0466 California Department of Public Health
2151 Berkeley Way
Berkeley, Calif. 94704
Tel: (415) 843-7900

AREAS OF INTEREST: Sanitary engineering; public health and safety aspects of domestic water supply; sewage and industrial waste treatment and disposal, including radioactive wastes; laws governing waste disposal, reuse of sewage effluents, and delivery of domestic water supplies; recreation area sanitation; water quality, treatment, and pollution; shellfish culture and processing.

HOLDINGS: The Department maintains a technical library jointly with the University of California School of Public Health.

PUBLICATIONS: *California Domestic Water Supplies* (biennial, giving the name, ownership, sources, and engineering and chemical data of California water supplies).

INFORMATION SERVICES: Answers technical inquiries; makes referrals to other State agencies; provides advisory services to local health departments on water distribution and sanitation; provides consulting services on contractual basis; prepares analyses and evaluations; provides limited bibliographic services.

CALIFORNIA DEPARTMENT OF PUBLIC WORKS

Division of Highways

Materials and Research Department Library

0467 California Division of Highways
5900 Folsom Blvd.
Sacramento, Calif. 95819
Tel: (916) 452-5481

AREAS OF INTEREST: Materials testing; materials specifications; engineering; highways; engineering standards; pavements; construction materials; performance tests.

HOLDINGS: 12,000 technical reports; 2,300 books; 250 periodicals; 350 standards and specifications; 200 bibliographies; abstracts and indexes.

INFORMATION SERVICES: Provides bibliographic and literature-searching services; permits onsite use of collection.

Transportation Library

0468 California Department of Public Works
P.O. Box 1499
Sacramento, Calif. 95807

Location:
1120 N St.
Sacramento, Calif.
Tel: (916) 445-3230

AREAS OF INTEREST: Statewide multimodal transportation growth and development; recommended legislation, regulation, and administrative policies; community socioeconomic values and their relation to all forms of transportation; financial support for various modes of transportation and determination of equitable methods for its apportionment; bridges; inland boating; urban and highway planning, design, construction, and maintenance; traffic engineering and control; economics and taxation; highway inventories and functional classification; roadside rests; photogrammetry and mapping; pollution and ecology; management development and training.

HOLDINGS: 8,000 books and monographs; 23,000 reports; 350 standards; 85 periodical titles; 140,000 abstracts; 1,750 newsletters; 1,750 reprints; 300 publication lists; 1,000 bibliographies; 12,500 booklets and pamphlets.

INFORMATION SERVICES: Provides reference services to departmental personnel; permits onsite reference.

CALIFORNIA FERTILIZER ASSOCIATION

0469 2222 Watt Ave., Suite B-7
Sacramento, Calif. 95825
Tel: (916) 483-6027

The Association acts as legislative advocate for the fertilizer industry and maintains liaison between the industry and scientists in the University of California, the State colleges, junior colleges, and State control officials.

AREAS OF INTEREST: Fertilizers for California soils and crops; soil fertility; fertilizer transportation, safety, application, and equipment.

HOLDINGS: Books, journals, bulletins, brochures, booklets, proceedings, data.

PUBLICATIONS: *Western Fertilizer Handbook*; reports, proceedings, directory, booklets, brochures. Some publications are distributed free; others are priced at cost.

INFORMATION SERVICES: Answers inquiries; makes referrals.

CALIFORNIA INSTITUTE OF TECHNOLOGY

Division of Geological Sciences

0470 California Institute of Technology
Pasadena, Calif. 91109
Tel: (213) 795-6841 Ext. 2124
(213) 795-6841 Ext. 2118 (Geology Library)

AREAS OF INTEREST: Geology; geophysics; geochemistry; geobiology; planetary science; astrogeology.

HOLDINGS: A library of 5,500 books, 9,500 bound volumes of periodicals, 465 serial subscriptions, and about 80 shelf feet of reprints. The Division also has rock, mineral, and fossil collections.

PUBLICATIONS: Papers by professors, annual report.

INFORMATION SERVICES: Answers inquiries and may make referrals. The library may permit onsite use of the collections by prior arrangement.

Special facilities include a cold laboratory for X-ray and physical investigations on ice, electron microprobe and other analytical and X-ray facilities, super-clean laboratories for preparation for isotopic analyses, mass spectrometers for light and heavy elements, a high pressure laboratory, and an aquarium for controlled environmental studies, as well as such supporting facilities as a computer console, field vehicles, and shops. The Division also maintains the Donnelley and Kresge Seismological Laboratories in the San Rafael Hills three miles northwest of the campus, which, in addition to housing the Pasadena seismological station, include the headquarters for a 20-station seismological network spaced throughout southern California (including a telemetered seismic array), a heat-flow laboratory, high-pressure facilities, seismic scale-model laboratory, and specialized computing equipment. The Division also operates a specially designed 24-inch lunar and planetary telescope at Mt. Wilson Observatory for optical and infrared observations.

Jet Propulsion Laboratory Library

0471 California Institute of Technology
4800 Oak Grove Dr.
Pasadena, Calif. 91103
Tel: (213) 354-4200

AREAS OF INTEREST: Lunar, planetary, and deep-space unmanned scientific missions; exploration of moon and planets through television; low-orbit missions and soft landings; tracking and data acquisition techniques and equipment; deep-space worldwide communications network; geophysical instruments; planetary atmospheres; analysis of particles and fields in deep space from telemetered data.

HOLDINGS: Books and journals in all major languages; over 100,000 technical reports; patents, films, photos, data.

PUBLICATIONS: *Space Programs Summary* (bimonthly); *JPL Bibliography* (a list of publications, issued monthly and cumulated annually); reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference. Services are limited to approved personnel of organizations contributing to the national defense or space efforts.

W. M. Keck Laboratory of Environmental Health Engineering

0472 W. M. Keck Engineering Laboratories
California Institute of Technology
Pasadena, Calif. 91109
Tel: (213) 795-6841

AREAS OF INTEREST: Water supply, purification, and distribution; sewerage and drainage; sewage treatment and disposal; industrial water supply and wastes; water quality criteria; aquatic and marine ecology; demineralization; applied chemistry of aqueous solutions; waste-water reclamation and reuse; water management in space environments; water and waste-water microbiology; radioactive wastes; water economics; water law.

HOLDINGS: The Laboratory uses the entire library facilities of the Institute. Frequently used material is kept in the Keck Reference Room.

PUBLICATIONS: *EHE at CIT* (annual); reports (irregular).

INFORMATION SERVICES: Answers inquiries; provides consulting services.

W. M. Keck Laboratory of Hydraulics and Water Resources

0473 Keck Laboratory Bldg.
California Institute of Technology
1201 East California Blvd.
Pasadena, Calif. 91109
Tel: (213) 795-6841

AREAS OF INTEREST: Water resources; hydraulics and hydraulic structures; coastal engineering; water pollution control, including thermal pollution.

HOLDINGS: Delft Laboratory (Netherlands) documentation card index for world literature in hydraulics.

PUBLICATIONS: *Laboratory Report* series.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services for fee.

CALIFORNIA REDWOOD ASSOCIATION

0474 617 Montgomery St.
San Francisco, Calif. 94111
Tel: (415) 392-7880

AREAS OF INTEREST: California redwood (sequoia sempervirens), including its chemical, physical, and mechanical properties; coating and treatment of redwood; redwood lumber and other products; redwood forests.

HOLDINGS: Books, periodicals, reports, data, proprietary information.

PUBLICATIONS: Technical reports, standards and specifications, data handbook.

INFORMATION SERVICES: Answers inquiries; provides reference and consulting services; permits onsite use of literature collection.

CALIFORNIA RESOURCES AGENCY

California Air Resources Board

0475 1108 14th St.
Sacramento, Calif. 95814
Tel: (916) 445-1511

AREAS OF INTEREST: Air pollution; harmful effects of gases and particle pollution; environmental effects in relation to criteria and standards; measurement of contaminants in the atmosphere; analysis of data to determine air quality and long range trends of pollution; establishment of air quality standards and motor vehicle emission standards; design of motor vehicle control program; enforcement of motor vehicle control program and local agency stationary source control programs; measurement of motor vehicle emissions; surveillance of motor vehicle emission control devices; research in photochemical reactions.

HOLDINGS: 100,000 graphs and tables; 500,000 punched cards; 2,000 periodical titles; 200 books; 300 reports.

PUBLICATIONS: *California Air Quality Data*; *California Air Resources Bulletin*; *Air Pollution Control in California*; *Emission Inventories*; *California Air Basins*; *The Diesel Vehicle and Its Role in Air Pollution*; *The Oxides of Nitrogen in Air Pollution*; several staff reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services to local agencies; permits onsite use of collection.

California Department of Conservation

Division of Mines and Geology

0476 California Department of Conservation
The Resources Bldg., Room 1341
1416 Ninth St.
Sacramento, Calif. 95814

San Francisco Office:

California Department of Conservation
Ferry Bldg.
San Francisco, Calif. 94111
Tel: (415) 557-0633

AREAS OF INTEREST: Earth sciences (geology); mineralogy; mining engineering; mineral exploration and industries; geography; California history.

HOLDINGS: A museum with 15,000 specimens of rocks, minerals, and ores, and a library of books (31,000), journals, reports, maps, charts, and photographs, both at the San Francisco office.

PUBLICATIONS: *Mineral Information Service* (monthly); geologic map of California (1:2,500,000 and 1:250,000 scales); bulletins, special reports, map sheets (geological maps).

INFORMATION SERVICES: The San Francisco office answers inquiries and permits onsite reference to the collections. The Sacramento office answers mail inquiries.

Division of Soil Conservation

0477 California Department of Conservation
1416 Ninth St., Room 1452
Sacramento, Calif. 95814
Tel: (916) 445-9144

AREAS OF INTEREST: Water and soil conservation, including flood prevention, watershed protection, and erosion control; formation and operation of soil conservation districts.

HOLDINGS: 1,000 maps; data.

PUBLICATIONS: *Annual Report of the State Soil Conservation Commission*; leaflets, brochures.

INFORMATION SERVICES: Answers inquiries; makes referrals.

California Department of Water Resources

0478 P.O. Box 388
Sacramento, Calif. 95802

Location:

Resources Bldg.
1416 Ninth St.
Sacramento, Calif.
Tel: (916) 445-9248

AREAS OF INTEREST: Population data; water economics; water supply and distribution; land and water use; water rights; water law; hydrology; hydrography; hydraulic engineering; safety of dams; ground water; engineering geology; earthquake engineering; surface water; telemetering; irrigation; reservoirs; water supply forecasting; watershed management; flood protection; flood plain management; soil erosion and subsidence; water quality; water wells, drainage, seepage, and diversion of water; weather modification; rain; snow; precipitation; runoff and streamflow studies; desalination; salt water intrusion into ground-water basins; water management; hydropower generation and distribution; construction of hydraulic structures; sewage and industrial wastes; fish and wildlife enhancement; recreational development; navigation and harbor improvement; water compacts; water resources development and regional water planning; water reclamation; beach erosion and shoreline protection.

HOLDINGS: 583,000 maps, drawings, and charts; 30,000 slides; 3 million punched cards; 1,500 rolls of 16mm microfilm of basic data and supporting data records; 3,600 reels of magnetic tape; 212,000 master aperture cards of 35mm microfilm, plus 1,040 reels of 35mm microfilm of additional basic data, drawings, and investigation records; numerous standards and specifications, project records, geology specimens, and stream-measuring devices. The Department's reference collections serve as a repository for hydrologic data on California.

PUBLICATIONS: Bulletins (about 40 a year). A publications list, issued as part of the Bulletin No. 170 series, "Abstracts of DWR Publications", is available.

INFORMATION SERVICES: Answers inquiries; provides duplication services at cost; makes referrals; permits onsite reference by researchers. Hydrologic data on various areas in California are available from the Department's branch offices, located as follows:

Northern California Area
Northern District Office
2440 Main St.
P.O. Box 607
Red Bluff, Calif. 96080

Central California Area
Central District
3251 S St.
P.O. Box 9137
Sacramento, Calif. 95816

San Joaquin Valley Area
San Joaquin District
3374 East Shields Ave.
P.O. Box 2385
Fresno, Calif. 93723

Southern California Area
Southern District
849 South Broadway
P.O. Box 6598
Los Angeles, Calif. 90055

California State Lands Commission

State Lands Division

0479 California State Lands Commission
107 South Broadway, Room 3123
Los Angeles, Calif. 90012
Tel: (213) 620-3010

AREAS OF INTEREST: Sovereign (tide and submerged) lands; unsold school lands (16th and 36th sections of each township, approximately 3,000,000 and 700,000 acres respectively); ocean engineering, including offshore oil, gas, and other mineral development; geological and geophysical evaluations and mapping; offshore oil and gas production statistics; petroleum engineering; cadastral surveys; land-use planning; commercial and recreational leasing (pipelines, piers, harbor development, marina development, sundry rights-of-way uses); monitoring granted land uses (to local political subdivisions); school land sales and leasing, including leases for livestock grazing, oil, gas, and other mineral development, cabin sites, and sundry rights-of-way uses.

HOLDINGS: Offshore geologic data bank (confidential); record surveys; sovereign and school land title records dating from 1850; maps and charts; legal descriptions of school land holdings; coastal land-use data bank.

INFORMATION SERVICES: Answers inquiries; provides duplication services for fee; provides access to public records of the State Lands Commission.

Facilities include computer systems and oil and gas sampling and testing facilities equipped with gas chromatograph.

California Water Resources Control Board

0480 Resources Bldg., Room 1140
1416 Ninth St.
Sacramento, Calif. 95814
Tel: (916) 445-3085

AREAS OF INTEREST: Water resource planning and management; water quality control; water pollution control; waste water reclamation and use; estuarine and coastal waters; sewage disposal; appropriation of water; water right adjudication; ground-water extractions and diversions.

HOLDINGS: Reports, graphs, tables, data.

PUBLICATIONS: Reports. A publications list is available.

INFORMATION SERVICES: Answers inquiries within staff and time limitations.

CALIFORNIA WATER RESOURCES ASSOCIATION

0481 223 East Broadway
Glendale, Calif. 91205
Tel: (213) 246-6444

AREAS OF INTEREST: Cooperative development of water resources of California and the West and solutions to regional water problems; the $2.8 billion California State Water Project and its timely and economical completion; other major water developments and projects and plans for supplementing the water supplies of the Pacific-Southwest States.

PUBLICATIONS: Newsletters, bulletins, news releases, analytical reports, pamphlets.

INFORMATION SERVICES: Answers inquiries regarding water projects; lends films on the State Water Project; provides speakers to civic groups.

CAMBRIDGE COMMUNICATIONS CORP.

0482 1612 K St. NW.
Washington, D.C. 20006
Tel: (202) 393-1239

AREAS OF INTEREST: Solid state physics; metallurgy; chemistry; electronics; plasma physics; circuit theory; computer technology; programming; applied mathematics; control systems; information theory; cybernetics.

HOLDINGS: Books, periodicals, abstracts.

PUBLICATIONS: *Solid State Abstracts Journal* (quarterly); *Electronics Abstracts Journal* (quarterly); *Information Processing Journal* (quarterly); *Cumulative Solid State Abstracts* (annual); *Cumulative Electronics Abstracts* (annual); *Cumulative Computer Abstracts* (annual).

INFORMATION SERVICES: The Corporation provides information primarily through its publications, all of which are available by subscription. Consulting, literature-searching, and abstracting and indexing services are also available on a fee basis.

CAMBRIDGE RESEARCH LABORATORIES

see Air Force, Department of the. Air Force Systems Command

CAMP, DRESSER & MCKEE

0483 1 Center Plaza
Boston, Mass. 02108
Tel: (617) 742-5151

AREAS OF INTEREST: Environmental engineering (sanitary engineering), including water resources, water supply, water treatment, sewerage, sewage treatment, industrial waste treatment, drainage, flood control, solid waste disposal, water and air pollution control, research and development, community planning of sanitary facilities, design and engineering services during construction, and supervision of operation.

HOLDINGS: 1,800 books; 200 periodicals; extensive pamphlet and clipping file; subject-indexed abstracts from technical journals; indexes to journals, society transactions, company reports and computations, specifications, operating manuals.

PUBLICATIONS: Company newsletter, brochures, reports, technical papers.

INFORMATION SERVICES: Provides reference and duplication services; provides reprints of publications by company personnel; makes interlibrary loans; permits limited onsite reference by students by special permission.

Facilities include a laboratory equipped to run sanitary analyses and research and development projects, and a time-sharing computer console and an in-house IBM 1130 computer.

CAN MANUFACTURERS INSTITUTE, INC.

0484 821 15th St. NW.
Washington, D.C. 20005
Tel: (202) 737-6242

AREAS OF INTEREST: Metal can manufacturing technology; production statistics.

HOLDINGS: Informational and educational pamphlets; annual metal cans shipments report.

INFORMATION SERVICES: Provides reference services; makes available directory of companies making cans.

THE CANAL AUTHORITY OF THE STATE OF FLORIDA

0485 803 Rosselle St.
Jacksonville, Fla. 32204
Tel: (904) 356-0405

AREAS OF INTEREST: Land use; inland ports; inland waterways; canal transportation.

HOLDINGS: Miscellaneous Congressional hearings and public documents.

PUBLICATIONS: Annual and special purpose reports.

INFORMATION SERVICES: Answers inquiries; makes referrals.

CANAL ZONE LIBRARY-MUSEUM

0486 Balboa Heights, Canal Zone

Location:

Civil Affairs Bldg.
Gaillard Highway
Ancon, Canal Zone
Tel: 2-1424, 2-2664, or 2-4326

AREAS OF INTEREST: Canal Zone; Republic of Panama; Central America; Caribbean area; canals; civil engineering; hydrology; shipping.

HOLDINGS: 275,000 items; 700 periodical titles; papers, manuscripts, photos, maps. The Library's Panama Collection contains material on the history of the Panama Isthmus, the building of the Panama Railroad, the French efforts to build a canal, the U.S. construction of the Panama Canal, and other interoceanic canal projects. The Museum supplements the Panama Collection by preserving three-dimensional objects of interest in Panama Canal history, such as models of equipment used in Canal construction.

PUBLICATIONS: Bibliographies, accessions lists.

INFORMATION SERVICES: Permits onsite reference; lends materials locally.

CARNEGIE INSTITUTION OF WASHINGTON

Department of Terrestrial Magnetism Library

0487 Carnegie Institution of Washington
5241 Broad Branch Rd. NW.
Washington, D.C. 20015
Tel: (202) 966-0863

AREAS OF INTEREST: Electricity; physics; geophysics; biophysics; astrophysics; nucleic acid synthesis and interaction; protein synthesis; geochronology; explosion seismology; generators (over one million volt) for study of light-element nuclear reactions and beam foil spectroscopy; terrestrial magnetism; radio astronomy; seismology; astronomical radio and optical spectroscopy; image intensifier systems; novel scientific instrument development.

HOLDINGS: Books, journals, reports, data.

PUBLICATIONS: Annual report, publications list, reprints of scientific papers.

INFORMATION SERVICES: Permits onsite reference.

Geophysical Laboratory

0488 Carnegie Institution of Washington
2801 Upton St. NW.
Washington, D.C. 20008
Tel: (202) 966-0334

AREAS OF INTEREST: Geophysics; geology; mineralogy; phase equilibrium studies of silicates, sulfides, oxides, and carbonates; isotopic studies; statistical petrography; crystal structure analysis of minerals; organic constituents of fossils.

HOLDINGS: 21,000 reference books and journals; data, nonprinted material.

PUBLICATIONS: *Annual Report of the Director of the Geophysical Laboratory.*

INFORMATION SERVICES: Permits onsite use of collection by qualified scientists.

Office of Administration

0489 Carnegie Institution of Washington
1530 P St. NW.
Washington, D.C. 20005
Tel: (202) 387-6400

AREAS OF INTEREST: Publications of the Carnegie Institution of Washington relating to astronomy, geophysics, plant biology, genetics, embryology, physics, and terrestrial magnetism.

HOLDINGS: This Office is the central depository and sales office for all annual reports and monographs published by the various departments and research centers of the Institution.

PUBLICATIONS: *Year Book of the Carnegie Institution of Washington*; occasional monographs. A price list of publications is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; makes out-of-print monographs available on microfilm at cost. A list of depository libraries where Carnegie Institution publications may be obtained on interlibrary loan is available.

CARNEGIE LIBRARY OF PITTSBURGH

Science and Technology Department

0490 Carnegie Library of Pittsburgh
4400 Forbes Ave.
Pittsburgh, Pa. 15213
Tel: (412) 621-7300

AREAS OF INTEREST: Pure and applied sciences, with emphasis on chemistry and metallurgy; history of science; astronomy; physics; geology; technology; engineering; manufacturing; building construction; biology; botany; anthropology; zoology.

HOLDINGS: 460,000 bound volumes; 5,000 serials; 300,000 reports; 360 indexes and abstracts; patents, maps, charts, standards and specifications; U.S. MIL Specifications; numerical sets of British-U.S. patents with classes and subclasses. The Library is a repository for AEC and NASA publications.

PUBLICATIONS: *Review of Iron and Steel Literature* (annual); *Science and Technology: A Purchase Guide for Public Libraries* (annual).

INFORMATION SERVICES: Provides reference, consulting, and duplication services (accepts orders by teletype: TWX (710) 664-4280); makes interlibrary loans; permits onsite reference; disseminates information to industry in Penntap Project.

CARNEGIE-MELLON UNIVERSITY

API Standard Reference Materials

0491 Carnegie-Mellon University
Schenley Park
Pittsburgh, Pa. 15213
Tel: (412) 621-2600

AREAS OF INTEREST: Physical properties of hydrocarbons, organic sulfur compounds, and organic nitrogen compounds; reference standards; calibration standards.

HOLDINGS: 477 samples of pure hydrocarbons and chemicals for distribution; physical property data.

INFORMATION SERVICES: Provides standard reference material of hydrocarbons, sulfur, and nitrogen compounds of very high purity for fee (lists are available on request).

Department of Civil Engineering

0492 Carnegie-Mellon University
Schenley Park
Pittsburgh, Pa. 15213
Tel: (412) 621-2600 Ext. 381

AREAS OF INTEREST: Hydraulic engineering and fluid mechanics (industrial, municipal, and radioactive waste treatment; qualitative and quantitative aspects of water supply and pollution; flow of solid-liquid-gas mixtures in pipes; fluid resistance to motion of submerged bodies; diffusion and turbulence in fluids and non-newtonian flows); soil mechanics and foundation engineering (study of granular soils, with respect to loading, from compression blast or impact; pore pressure and volume changes; cohesive soils and load transfer in soil foundation systems); solid mechanics and structural engineering (stress in solids; dynamic response of structural systems; shell structures; reinforcing in materials and the fatigue characteristics of these materials); materials and rheology (dynamic response of materials; rheological properties of materials of all types and radiation damage in solids with a possible application in space travel); applied space science (fracture toughness of aerospace materials; extraterrestrial-lunar construction materials; applications of perturbation method to celestial mechanics); biomechanics (hydrodynamics of blood and biological materials with the aim of duplication of natural materials with synthetic materials); systems design (development of a computer language for hydrology and sanitary engineering (HYDRO) for specific use in water resource research and practice; Heuristic Games in Engineering design, with applications in engineering, transportation, and community problems; Discrete State Theory); transportation and urban engineering; land use; transit systems; transportation planning; urban redevelopment; housing; air and water pollution and control; civil engineering management; construction planning; complex systems analysis.

HOLDINGS: The Department's holdings are maintained in the University Library.

INFORMATION SERVICES: Answers inquiries; provides consulting services for fee.

Facilities include photo-elastic equipment, two of the latest mechanical and hydraulic testing stands, and access to an IBM 360 and a Univac 1108 computer.

Mellon Institute

Water Resources Fellowship

0493 Mellon Institute
4400 Fifth Ave.
Pittsburgh, Pa. 15213
Tel: (412) 621-1100

AREAS OF INTEREST: Research related to the use, reuse, and disposal of waters in the iron and steel industry. Specific areas of interest at present are engineering, including sedimentation, filtration, flocculation, water conservation, biological waste treatment, and chemistry, including analytical, organic and inorganic of aqueous solutions, instrumentation, chlorination, and coagulation.

HOLDINGS: Reprints of Fellowship papers.

INFORMATION SERVICES: Answers inquiries.

Mellon Institute Library

0494 4400 Fifth Ave.
Pittsburgh, Pa. 15213
Tel: (412) 621-1100 Ext. 369

AREAS OF INTEREST: Chemistry; biochemistry; radiation chemistry; metallurgy; industrial hygiene;

chemical hygiene and toxicology; metal physics; spectroscopy; polymer science; air pollution; water pollution.

HOLDINGS: 51,000 volumes, including books and bound journals; 1,000 current periodical subscriptions.

INFORMATION SERVICES: Provides duplication services of material not easily available elsewhere; makes interlibrary loans of books; permits onsite use of collection by members of the scientific community.

CAROLINAS VIRGINIA NUCLEAR POWER ASSOCIATION

0495 1328 Sumter St.
Parr, S.C. 29066
Tel: (803) 345-2287

AREAS OF INTEREST: Nuclear engineering.

HOLDINGS: Books, journals, reports.

INFORMATION SERVICES: Provides reference and consulting services; permits onsite use of collection.

THE CARPET AND RUG INSTITUTE

0496 P.O. Box 8
Dalton, Ga. 30720

Location:
208 West Cuyler St.
Dalton, Ga.
Tel: (404) 278-3176

AREAS OF INTEREST: Carpets and rugs.

PUBLICATIONS: Reports, directories.

INFORMATION SERVICES: Answers inquiries.

CARRIER CORP.

Logan Lewis Library

0497 Carrier Corp., Research Division
Carrier Parkway
Syracuse, N.Y. 13201
Tel: (315) 463-8411 Ext. 3288

AREAS OF INTEREST: Air conditioning; acoustics; chemistry; electrical and mechanical engineering; thermoelectricity; electronics; heating; metallic and nonmetallic materials; mathematics; physics; refrigeration; semiconductors; ventilation; water; waste disposal; air and water pollution.

HOLDINGS: 3,000 books; 365 journal titles; 23,000 reports; films, photos, maps, charts, data.

PUBLICATIONS: Monthly information bulletin; reports.

INFORMATION SERVICES: Provides reference services; permits onsite reference by local scientists and students.

THE CARTER'S INK CO. TECHNICAL LIBRARY

0498 239 First St.
Cambridge, Mass. 02142
Tel: (617) 547-2950 Ext. 332

AREAS OF INTEREST: Inks, including writing, drawing, and indelible inks; felt tip markers; carbon paper; typewriter ribbons; stamp pads and inks; marking devices and inks; duplicator supplies; eradicators; artist colors; solvents; dyes and pigments; adhesives.

HOLDINGS: 1,000 books; 50 periodical titles; 500 technical reports; standards and specifications, reviews, abstracts and indexes, newsletters, bibliographies, pamphlets, reprints, publication lists.

PUBLICATIONS: Patent reviews (new patents); literature abstracts.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; makes interlibrary loans to other companies.

CARUS CHEMICAL CO.

Permanganate Information Service

0499 Carus Chemical Co.
1375 Eighth St.
La Salle, Ill. 61301
Tel: (815) 223-1500

AREAS OF INTEREST: Manganates and permanganates, including chemical, physical, biological, physiological, and medical data and industrial applications.

HOLDINGS: Periodicals, abstract journals, books, technical and scientific data, patents, Government reports, industrial literature, project or administrative data, technical correspondence.

INFORMATION SERVICES: Supplies information on any subject matter pertaining to manganates and permanganates, except proprietary information; provides consulting services on fee basis; provides photocopies of holdings at cost; permits onsite use of collection by appointment only.

CASE WESTERN RESERVE UNIVERSITY

Center for Documentation and Communication Research

0500 School of Library Science
Case Western Reserve University
10831 Magnolia Dr.
Cleveland, Ohio 44106
Tel: (216) 231-7700 Ext. 317

AREAS OF INTEREST: Documentation and information retrieval systems, including the development and evaluation of analysis, indexing, coding, and searching techniques using both mechanized and nonmechanized procedures; automation of library procedures, including the computer production of bibliographies.

PUBLICATIONS: Bibliographies.

INFORMATION SERVICES: Provides literature-searching services to researchers. Inquiries about special projects utilizing Center facilities or personnel should be addressed to the Director of the Center.

Engineering Design Center

0501 Case Western Reserve University
University Circle
Cleveland, Ohio 44106
Tel: (216) 368-2934

AREAS OF INTEREST: Engineering design; transportation; prosthesis; medical instrumentation; urban technology; learning environments; biomedical electronics; microelectronics.

HOLDINGS: Reports.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services. Services are provided free in most instances.

Warner and Swasey Observatory

0502 Taylor and Brunswick Rd.
East Cleveland, Ohio 44112
Tel: (216) 451-5624

AREAS OF INTEREST: Astronomy; astronomical spectroscopy; galactic structure; photometry; mathematics; physics; space research.

HOLDINGS: 3 telescopes and accessories; 1,800 books and monographs; 2,900 periodicals; 500 maps and charts; astronomical photographic plates (5,700 Schmidt direct; 9,000 Schmidt prism; 1,800 Cassegrain spectrograms); 300 slides; meteorite and tektite specimens, motion pictures, display materials, reports, punched cards, pamphlets, reprints.

PUBLICATIONS: *Warner and Swasey Observatory Reprints* (8 to 10 issues per year); *Luminous Stars in the Northern Milky Way* (published jointly with Hamburger Sternwarte, Hamburg, Germany); pamphlets.

INFORMATION SERVICES: Answers inquiries; permits onsite reference by astronomers, graduate astronomy students, and other qualified persons.

CAST IRON PIPE RESEARCH ASSOCIATION

0503 3440 Prudential Plaza
Chicago, Ill. 60601
Tel: (312) 527-2255

AREAS OF INTEREST: Application of gray cast iron and ductile iron pressure pipe in municipal and industrial water supply, sewerage, and gas systems.

PUBLICATIONS: *Handbook of Cast Iron Pipe* (3d edition, 1967).

INFORMATION SERVICES: Answers inquiries.

CATALYSTS AND CHEMICALS, INC. LIBRARY

0504 P.O. Box 86
Louisville, Ky. 40201

Location:

1227 South 12th St.
Louisville, Ky.
Tel: (502) 637-9751

AREAS OF INTEREST: Catalysis; inorganic and analytical chemistry; ceramics; petrochemicals; chemical process engineering; catalyst carriers; air pollution; petroleum refining.

HOLDINGS: 1,000 books; 80 periodical titles; 1,000 reports; 100 preprints and reprints; patents.

PUBLICATIONS: Technical newsletter (monthly, for in-company use only).

INFORMATION SERVICES: Makes interlibrary loans; provides duplication services. Services are provided at cost to all users.

The Library is a member of the Greater Louisville Technical Referral Center.

CAVE RESEARCH ASSOCIATES

0505 3842 Brookdale Blvd.
Castro Valley, Calif. 94546
Tel: (415) 537-3155

AREAS OF INTEREST: Caves; karst; speleology; geology; archeology; hydrology; paleontology; biology.

HOLDINGS: Books, journals, films, photos, maps, charts, data.

PUBLICATIONS: *Caves & Karst* (bimonthly); *Cave Studies* (1953-64); occasional papers.

INFORMATION SERVICES: Answers inquiries; provides reference, consulting, and literature-searching services for fee; provides copies of library materials.

CELANESE CORP.

Celanese Chemical Co.

Corpus Christi Technical Center Library

0506 Celanese Chemical Co.
P.O. Box 9077
Corpus Christi, Tex. 78408
Tel: (512) 241-2343

AREAS OF INTEREST: Organic and physical chemistry, especially hydrocarbon oxidation, isolation of pure products from hydrocarbon oxidation, and manufacture of derivatives therefrom.

HOLDINGS: 7,000 books; 6,500 journals; reports, patents.

PUBLICATIONS: Weekly patent abstract list; monthly library bulletin, which lists new acquisitions. The Library's holdings are listed in *Union List of Scientific Serials in the Corpus Christi Area*, compiled by the Library.

INFORMATION SERVICES: Makes interlibrary loans.

Celanese Coatings Co. Research Library

0507 P.O. Box 99038
Jeffersontown, Ky. 40299

Location:

9800 Bluegrass Parkway
Jeffersontown, Ky.
Tel: (502) 584-1361 Ext. 303 or 304

AREAS OF INTEREST: Paints; polymers; coatings; organic chemistry.

HOLDINGS: 10,000 books; 130 periodicals; over 100,000 chemical patents (currently receiving chemical patents on microfilm); abstracts, indexes, preprints, reprints, bibliographies, publication lists, pamphlets.

INFORMATION SERVICES: Answers inquiries; provides reference and duplication services for fee; makes interlibrary loans; participates in Greater Louisville Information Referral Center; permits onsite reference by special request.

Celanese Fibers Co.

Technical Information Center

0508 Celanese Fibers Co.
P.O. Box 1414
Charlotte, N.C. 28201

Location:

Archdale Dr.
Charlotte, N.C.
Tel: (704) 377-7411

AREAS OF INTEREST: Textiles and textile technology; polymer chemistry; organic chemistry; chemical engineering.

HOLDINGS: 6,800 books; 2,500 bound journals; 20,000 reports; 17,000 patents.

PUBLICATIONS: Bulletins for use of Company's customers.

INFORMATION SERVICES: Permits onsite use of literature collection by special permission.

Celanese Plastics Co. Information Center

0509 160 Terminal Ave.
Clark, N.J. 07066
Tel: (201) 381-4400

AREAS OF INTEREST: Polymers; plastics.

HOLDINGS: 2,700 books; 190 journals; reports.

INFORMATION SERVICES: Provides reference services; lends materials.

Celanese Research Co.

Technical Information Center

0510 Celanese Research Co.
P.O. Box 1000
Morris Court
Summit, N.J. 07901
Tel: (201) 273-6600

AREAS OF INTEREST: Polymer chemistry; organic chemistry; fibers; textiles; plastics; coatings; chemical engineering; chemicals; polymer physics.

HOLDINGS: 12,000 books; 650 journals; 45,000 reports; 60,000 patents; microfilms.

PUBLICATIONS: *Review of Current Technical Literature* (weekly); *Patent Bulletin* (weekly); *KWIC Indices of Internal Company Reports* (bimonthly); translations.

INFORMATION SERVICES: Provides reference and translating services; provides selective dissemination of information based on profiles, critical literature surveys, and computerized retrieval of internal information; permits onsite reference by request.

CEMENTED CARBIDE PRODUCERS ASSOCIATION

0511 2130 Keith Bldg.
Cleveland, Ohio 44115
Tel: (216) 241-7333

AREAS OF INTEREST: Cemented tungsten carbide.

HOLDINGS: 35 standards and specifications.

PUBLICATIONS: Standards and specifications.

INFORMATION SERVICES: Answers inquiries; makes referrals.

CENTER FOR CRYSTALLOGRAPHIC RESEARCH

0512 Roswell Park Memorial Institute
Buffalo, N.Y. 14203
Tel: (716) 886-2700

AREAS OF INTEREST: Crystallography, with emphasis on protein and other biologically important substances.

HOLDINGS: 1,200 crystal specimens; 200 crystal models; 475 books related to crystallography; research project records, periodicals, reprints of crystallographic importance.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; provides X-ray diffraction analyses; permits onsite reference.

CENTER FOR SHORT-LIVED PHENOMENA

see Smithsonian Institution

CENTRAL ARIZONA PROJECT ASSOCIATION

0513 1124 Arizona Title Bldg.
111 West Monroe St.
Phoenix, Ariz. 85003
Tel: (602) 253-2136

AREAS OF INTEREST: Water conservation; crop irrigation; ground water; watershed management; industrial use of water; water reuse; Colorado River; Salt River; Gila River, Verde River.

PUBLICATIONS: Reports, pamphlets, monthly newsletter.

INFORMATION SERVICES: Answers inquiries; disseminates publications; makes referrals; provides speakers for meetings.

CERTIFIED BALLAST MANUFACTURERS ASSOCIATION

0514 2120 Keith Bldg.
Cleveland, Ohio 44115
Tel: (216) 241-0711

AREAS OF INTEREST: Ballasts for fluorescent lighting; testing of ballasts; standards and specifications.

HOLDINGS: Reports, newsletters.

PUBLICATIONS: *CBM News* (quarterly); leaflets.

INFORMATION SERVICES: Answers brief inquiries.

CHAMBER OF COMMERCE OF THE UNITED STATES

Community and Regional Development Group

0515 Chamber of Commerce of the United States
1615 H St. NW.

Washington, D.C. 20006
Tel: (202) 659-6170

AREAS OF INTEREST: Natural resources, including Federal lands, forests, marine resources, mining and minerals, petroleum and natural gas, recreation, environmental pollution, water resources, electric power, and weather modification.

PUBLICATIONS: Four booklets: *Recommendations for the Conservation of Water Resources*; *The Need: To Manage Our Environment*; *Winston-Salem Park Plan Serves Recreation Needs for All* (Case Study No. 10); and *County-Wide Plan Controls Dayton Area Pollution Problems* (Case Study No. 11).

INFORMATION SERVICES: Answers general inquiries; makes referrals.

CHARGED-PARTICLE CROSS-SECTION INFORMATION CENTER

see Oak Ridge National Laboratory

CHARLES F. KETTERING FOUNDATION

Research Laboratory

0516 Charles F. Kettering Foundation
150 East South College St.
Yellow Springs, Ohio 45387
Tel: (513) 767-7271

AREAS OF INTEREST: Photosynthesis, nitrogen fixation, cell differentiation, instrumentation, and related aspects of biochemistry, plant physiology, organic chemistry, general biology, physical chemistry, physics, and biophysics.

HOLDINGS: 4,800 books; 2,100 journals.

PUBLICATIONS: *Current Literature Survey* (about 4 issues a year), a mimeographed listing of current journal articles pertaining to photosynthesis and nitrogen fixation

INFORMATION SERVICES: Answers inquiries related to past or present programs; permits onsite use of literature collection.

CHATTAHOOCHEE RIVER BASIN DEVELOPMENT COMMISSION

0517 P.O. Box 40
Atlanta, Ga. 30301

Location:

Carnegie Bldg., Room 502
Atlanta, Ga.
Tel: (404) 524-4594

AREAS OF INTEREST: Flood control; water supply; navigation; pollution abatement; hydroelectric power; recreation; controlled water flow.

HOLDINGS: Books, reports.

PUBLICATIONS: Studies, newsletters, news releases.

INFORMATION SERVICES: Answers inquiries; provides consulting services; provides speakers for meetings.

CHEMALLOY ELECTRONICS CORP.

0518 P.O. Box 10
Santee, Calif. 92071

Location:

7947 John Towers Ave.
Santee, Calif.
Tel: (714) 448-5715

AREAS OF INTEREST: Calorimetry; microwaves; geophysics; archeology; metals; solders; fuel cells; direct smelting of metals out of ores at the minesite, including silver, gold, platinum, and rare earth metals.

HOLDINGS: 300 slides; 100 maps and charts; 100 reports; 1,400 journals; 75 preprints and reprints; 75 pamphlets; 150 press releases; data; ore and metal samples.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and duplication services; permits onsite use of collection.

CHEMETRON CORP.

Chemicals Group

Catalysts Division

RESEARCH AND DEVELOPMENT LIBRARY

0519 Catalysts Division
Chemicals Group
Chemetron Corp.
P.O. Box 337
Louisville, Ky. 40201

Location:

4900 Crittenden Dr.
Louisville, Ky.
Tel: (502) 366-9541 Ext. 25

AREAS OF INTEREST: Catalysis; inorganic, organic, and physical chemistry; chemical engineering; mathematics; physics; radiochemistry; technology; management.

HOLDINGS: 3,100 books; 57 periodical titles; 17,000 reports; coordinately indexed in-house information collection.

PUBLICATIONS: Abstracts, bibliographies, annual report, monthly acquisitions list.

INFORMATION SERVICES: Answers inquiries; provides reference, literature searching, abstracting, translation, and duplication services; makes referrals; makes direct and interlibrary loans; permits onsite use of collection. Services are provided free, and are available to anyone by arrangement with the librarian.

Pigment Division

RESEARCH LIBRARY--HOLLAND, MICH.

0520 Pigment Division
Chemicals Group
Chemetron Corp.
491 Columbia Ave.
Holland, Mich. 49423
Tel: (616) 392-2391 Ext. 235

AREAS OF INTEREST: Organic chemistry; pigments; colors; dyes.

HOLDINGS: 1,500 books, including 300 reference books; 900 bound periodical volumes; 40 periodical titles.

PUBLICATIONS: Monthly acquisition bulletin.

INFORMATION SERVICES: Answers inquiries; provides reference and duplication services; makes interlibrary loans.

RESEARCH LIBRARY--HUNTINGTON, W.VA.

0521 Pigment Division
Chemicals Group
Chemetron Corp.
P.O. Box 2166
Huntington, W.Va. 25722

Location:

5th Ave. and 24th St.
Huntington, W. Va.
Tel: (304) 529-1311 Ext. 348

AREAS OF INTEREST: Chemical engineering; pigments and dyestuffs; printing inks; paints.

HOLDINGS: 1,800 books; 135 journals; 570 reports; 3,000 patents; films, photos, maps, charts, data.

INFORMATION SERVICES: Permits onsite reference by request.

CHEMICAL ABSTRACTS SERVICE DIVISION

see American Chemical Society

CHEMICAL KINETICS INFORMATION CENTER

see Commerce, Department of. National Bureau of Standards

CHEMICAL PROPULSION INFORMATION AGENCY (CPIA)

see Johns Hopkins University. Applied Physics Laboratory

THE CHEMICAL RUBBER CO.

0522 18901 Cranwood Parkway
Cleveland, Ohio 44128
Tel: (216) 475-9000

AREAS OF INTEREST: Tabular compilations in chemistry, radioactive nuclides, biochemistry, physics, mathematics, biosciences, food sciences, engineering sciences, clinical laboratory sciences, laboratory safety, and analytical toxicology.

HOLDINGS: Books, reports, journals, data.

PUBLICATIONS: *Handbook of Chemistry and Physics*; *Handbook of Tables for Mathematics*; *Handbook of Tables for Probability and Statistics*; *Handbook of Biochemistry with Selected Data for Molecular Biology*; *Handbook of Clinical Laboratory Data*; *Manual of Clinical Laboratory Procedures*; *Handbook of Laboratory Safety*; *Handbook of Food Additives*; *Handbook of Radioactive Nuclides*; *Handbook of Tables for Organic Compound Identification*; *Handbook of Tables for Applied Engineering Science*; *Handbook of Flavor Ingredients*; various titles in the *CRC Monoscience Series*.

INFORMATION SERVICES: Answers inquiries; provides reference services.

CHEMICAL SEARCH SERVICE

0523 P.O. Box 67
Grayslake, Ill. 60030
Tel: (312) 546-3898

AREAS OF INTEREST: Sources of rare chemicals and intermediates.

HOLDINGS: A file of more than 50,000 various chemicals.

INFORMATION SERVICES: Answers inquiries; provides consulting services; quotes prices and supplies chemicals on request. Services are provided for a fee, which is included in the prices quoted to customers. There is no charge for quotations.

CHEMICAL SPECIALTIES MANUFACTURERS ASSOCIATION, INC.

0524 50 East 41st St.
New York, N.Y. 10017
Tel: (212) 685-8722

AREAS OF INTEREST: Aerosol spray products of all types, as well as conventional packed automotive chemicals, detergents and cleaning compounds, disinfectants and sanitizers, insecticides, waxes, polishes, and floor finishes.

PUBLICATIONS: *Compilation of Economic Poison Laws*; *Compilation of Labeling Laws and Regulations for Hazardous Substances*; *Compilation of Official Insecticide Bio-Assay Methods and Chemical Analysis*; *Agencies and Regulations of Interest to the Aerosol Industry*; *Vendors to the Trade*; *Aerosol Guide*; *Compilation of Anti-Freeze & Brake Fluid Laws*; *Compilation of Weights & Measures Laws*; *Wax Manual of Testing Methods*; *State Registration of Pesticides*; *Composite Index of Proceedings*.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides legislative reporting service; develops specifications and testing methods; performs market surveys; conducts meetings and seminars. Some services are provided to members only.

CHEMICAL THERMODYNAMICS DATA CENTER

see Commerce, Department of. National Bureau of Standards

CHEMINEER, INC.

0525 P.O. Box 1123
Dayton, Ohio 45401

Location:

1939 East 1st St.
Dayton, Ohio
Tel: (513) 253-8881

AREAS OF INTEREST: Fluid agitation; mixing; agitators; mixing machinery; impellers; deaeration and degassing machinery.

HOLDINGS: Books, journals, reports, patents.

PUBLICATIONS: State-of-the-art reports, journal.

INFORMATION SERVICES: Answers inquiries; provides reference and consulting services free to potential clients, and for fee to others; provides duplication services; permits onsite reference.

Facilities include a laboratory equipped with bench scale mixing and degassing equipment, and a data processing center housing an IBM 1130 computer.

THE CHEMISTS' CLUB LIBRARY

0526 52 East 41st St.
New York, N.Y. 10017
Tel: (212) 679-6382

AREAS OF INTEREST: Chemistry, pure and applied, including analytical, biochemistry, ceramics, chemical engineering, colloid, chemical marketing and economics, cosmetics, food, industrial, inorganic, petroleum, pharmaceutical, polymer, rubber, sugar, textile, organic, theoretical, physical, etc.

HOLDINGS: 63,000 books and journals.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides reference and duplication services; permits onsite reference.

CHEMSTRAND RESEARCH CENTER, INC. LIBRARY

0527 P.O. Box 731
Durham, N.C. 27702
Tel: (919) 549-8111

AREAS OF INTEREST: Polymer and textile chemistry.

HOLDINGS: 6,000 books; 350 current periodical subscriptions.

INFORMATION SERVICES: Answers inquiries; provides limited reference services; makes interlibrary loans.

THE CHEMURGIC COUNCIL

Information Service

0528 The Chemurgic Council
350 Fifth Ave.
New York, N.Y. 10001

Tel: (212) 524-0153 or 524-0154

AREAS OF INTEREST: Agriculture, including chemurgic applications of farm-grown renewable resources for industry; nonfood uses of crops; profitable waste utilizations; new industrial crops relevant to industry's needs; upgrading of agricultural produce; toxicology; research in crops, coatings, textiles, plastics, construction materials, paper, and cellulose products.

HOLDINGS: Books, periodicals, data, Government reports, industrial literature, patents, technical correspondence.

PUBLICATIONS: *Chemurgic Digest* (8 issues a year).

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, literature-searching, bibliographic, and other information services free to members, and for fee to others.

CHESAPEAKE BAY CENTER FOR ENVIRONMENTAL STUDIES

see Smithsonian Institution. Office of Environmental Sciences

CHESAPEAKE BAY INSTITUTE

see Johns Hopkins University

CHICAGO DEPARTMENT OF AIR POLLUTION CONTROL

0529 320 North Clark St.
Chicago, Ill. 60610
Tel: (312) 744-4072

AREAS OF INTEREST: Air pollution and control; smoke; smog; auto exhaust.

HOLDINGS: 20 books; 75,000 reprints; 25,000 pamphlets; 2,500 clippings by States; 1,000 slides; 500 photos; 15 motion pictures; graphs, tables, maps, charts.

PUBLICATIONS: *Air Management* (bimonthly newsletter); 5 *Codes of Recommended Practices*; *Solid Waste Study--City of Chicago*; pamphlets, annual report, papers presented at the 1969 annual meeting of the Air Pollution Control Association.

INFORMATION SERVICES: Answers inquiries; operates a speaker's bureau; prepares exhibits for conferences and community projects; lends films and slides.

CHICAGO DEPARTMENT OF PUBLIC WORKS

0530 City Hall, Room 406
Chicago, Ill. 60602
Tel: (312) 744-3600

AREAS OF INTEREST: Engineering and architectural aspects of City of Chicago public works planning, design, construction, maintenance, and operation, including expressways, streets, sewers, rapid transit, waterworks, parkways, parks and playgrounds, municipal buildings, bridges, etc.

PUBLICATIONS: *Public Works Engineer* (4 issues a year); newsletter, annual report.

INFORMATION SERVICES: Answers brief inquiries; makes referrals to other public agencies.

CHICAGO DEPARTMENT OF WATER AND SEWERS

0531 City Hall, Room 404
Chicago, Ill. 60602
Tel: (312) 744-7004

AREAS OF INTEREST: Quality criteria for water along the shores of Lake Michigan; water treatment and filtration; water pollution; distribution and pumping techniques.

HOLDINGS: Reports, data.

PUBLICATIONS: Annual report for laymen and supplement containing technical information (both free on request).

INFORMATION SERVICES: Answers inquiries; makes referrals.

CHICAGO TRANSIT AUTHORITY

Engineering Department

H. S. Anthon Memorial Engineering Library

0532 Chicago Transit Authority
Merchandise Mart Plaza
P.O. Box 3555
Chicago, Ill. 60654
Tel: (312) 664-7200

AREAS OF INTEREST: Urban transportation and facilities engineering, construction, and maintenance; mathematics; information storage and retrieval; architecture; traffic planning; parking facilities; management and training.

HOLDINGS: 2,000 books; 84 spools of microfilms; 1,600 project records; 2,000 specifications; 186 periodicals; graphs, tables, reports, standards, newsletters, reprints, clippings, data, project progress photos, slides, maps, charts, display materials.

PUBLICATIONS: *Standards* (1967-68), containing design criteria for guidance of CTA Engineering Department staff and consultants.

INFORMATION SERVICES: Answers inquiries; makes referrals.

CHILEAN IODINE EDUCATIONAL BUREAU, INC.

0533 120 Broadway
New York, N.Y. 10005
Tel: (212) 349-3000

AREAS OF INTEREST: Iodine technology and applications in industry, medicine, public health, sanitation, nutrition, and chemistry.

HOLDINGS: Books, periodicals, reports.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, and literature-searching services; makes referrals.

CHLORINE INSTITUTE, INC.

0534 342 Madison Ave.
New York, N.Y. 10017
Tel: (212) 682-4324

AREAS OF INTEREST: All problems relating to the handling and use of chlorine, such as safety, transportation, regulations and legislation, equipment, containers, statistical data, and engineering and design; disinfection and other chlorine applications in water; sewage and industrial waste treatment processes; State regulations related to disinfection.

HOLDINGS: 600 books; 1,000 reports; 10,000 clippings; patents, statistical data.

PUBLICATIONS: *The Chlorine Manual*; pamphlets, engineering and design recommendations, specifications and drawings.

INFORMATION SERVICES: Makes referrals; provides bibliographic, consulting, and duplication services.

CIGARETTE LIGHTER MANUFACTURERS ASSOCIATION

0535 239 Park Ave. South
New York, N.Y. 10003
Tel: (212) 477-0055

AREAS OF INTEREST: Cigarette lighters.

INFORMATION SERVICES: Answers inquiries; provides consulting services; refers inquirers to specific manufacturers and to locations where repair services are available.

CITY COLLEGE OF CITY UNIVERSITY OF NEW YORK

School of Engineering Library

0536 City College of New York
St. Nicholas Terrace and West 140th St.
New York, N.Y. 10031
Tel: (212) 621-2324

AREAS OF INTEREST: Engineering; astronomy; physics; chemistry; mathematics; technology.

HOLDINGS: 26,000 books; 16,000 bound periodicals; 1,500 reels of microfilmed journals.

INFORMATION SERVICES: Provides reference services, primarily to faculty and students; makes interlibrary loans.

CIVIL AERONAUTICS BOARD

0537 1825 Connecticut Ave. NW.
Washington, D.C. 20428
Tel: (202) 382-6031 or 382-4526

The Civil Aeronautics Board, an independent agency, regulates the economic aspects of domestic and international U.S. air carrier operations and the common carrier operations of foreign air carriers to and from the U.S., and participates in the establishment and development of international air transportation.

AREAS OF INTEREST: Air transportation (regulation and promotion); air fares; air cargo rates; air routes.

HOLDINGS: A library of about 25,000 books and pamphlets, 100 periodical titles, a file of legislation on aviation and related matters, and legislative histories of the Civil Aeronautics Act of 1938 and the Federal Aviation Act of 1958.

PUBLICATIONS: *CAB Reports* (economic enforcement cases); *CAB Regulations*; *Handbook of Airline Statistics* (biennial); *Air Carrier Traffic Statistics* (monthly); *Air Carrier Financial Statistics* (quarterly); an annual bulletin of seasonally adjusted air traffic data; periodic publications dealing with airport activity statistics of certificated route carriers and origin-destination statistics for passengers. A publications list is available.

INFORMATION SERVICES: Answers inquiries; provides advisory and reference services; makes interlibrary loans to other Government agencies. The library is open to the public for reference use, and the public may have direct access to carrier reports going back several years. A duplication service is available.

CIVIL AIR PATROL

see Air Force, Department of the

CIVIL SERVICE COMMISSION

Bureau of Policies and Standards

Standards Division

NATURAL SCIENCE AND ENGINEERING OCCUPATIONS SECTION

0538 Standards Division
U.S. Civil Service Commission
1900 E St. NW.
Washington, D.C. 20415
Tel: (202) 343-7413

AREAS OF INTEREST: Occupational standards for positions in the Federal service in the natural sciences and engineering, including meteorology, chemical engineering, civil engineering, geology, chemistry, cartography, metallurgy, oceanography, architecture, drafting, electronics, etc.; descriptions of occupations, criteria for evaluation of positions, and employment qualification requirements in terms of education and experience; manpower statistics on Federal employment by occupation, agency, and grade.

HOLDINGS: Data compilations on employment.

PUBLICATIONS: Position-classification standards and qualification standards for each occupation. Position-classification standards may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Copies of qualification standards are available free from the Commission.

INFORMATION SERVICES: Answers inquiries.

CLAREMONT COLLEGES

Joint Science Department

0539 Claremont Colleges
Claremont, Calif. 91711
Tel: (714) 626-8511

AREAS OF INTEREST: Human ecology (pollution, physiology); limnology; paleontology; evolution; physiology; animal behavior; microbial genetics; immunology; virology; enzymology; biological polymers; high polymer physics; kinetics and catalysis of reactions; nonmetallic, organometallic compounds; spectroscopy; photochemistry; quantum mechanics; particle physics; theoretical chemistry.

HOLDINGS: Over 275 periodical titles; books, reports.

PUBLICATIONS: Research reports in appropriate journals.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

CLARKSON COLLEGE OF TECHNOLOGY

Light Scattering Data Center

0540 Clarkson College of Technology
Potsdam, N.Y. 13676
Tel: (315) 268-6527

AREAS OF INTEREST: Light scattering in gases, liquids, and liquid mixtures; refractive index increments in liquids and solutions.

HOLDINGS: Data.

PUBLICATIONS: Two state-of-the-art reviews. The end result of the Center's work will be the publication of two monographs as part of the Standard Reference Data Series.

INFORMATION SERVICES: Answers inquiries; provides consulting services; evaluates data. Services are available to anyone working in the light scattering field.

CLEARINGHOUSE FOR FEDERAL SCIENTIFIC AND TECHNICAL INFORMATION

Redesignated the National Technical Information Service. *See* Commerce, Department of

CLEMSON UNIVERSITY

Office of Engineering Research

0541 College of Engineering
Clemson University
Clemson, S.C. 29631
Tel: (803) 654-2421 Ext. 349

AREAS OF INTEREST: Mechanical engineering; civil engineering; chemical engineering; water resources engineering; materials engineering; bioengineering; environmental systems engineering; electrical engineering; ceramic engineering; engineering mechanics.

HOLDINGS: 2,500 reports; 700 periodicals; 300 abstracts; 500 standards and specifications; 3,000 newsletters and newspapers.

PUBLICATIONS: *Engineering Experiment Station Bulletins*; state-of-the-art studies.

INFORMATION SERVICES: Answers brief inquiries; makes referrals.

Rhodes Research Engineering Center

Department of Environmental Systems Engineering

0542 Rhodes Research Engineering Center
Clemson University
Clemson, S.C. 29631
Tel: (803) 654-2421 Ext. 272 or 429

AREAS OF INTEREST: Air and water quality control, planning, and management; water and waste water treatment; biological and physicochemical processes; stream and estuarine ecology; environmental systems analysis; environmental monitoring; educational resources.

HOLDINGS: 1,000 reports.

PUBLICATIONS: Reports, individual articles in journals, training publications for water and waste water treatment plant operators.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and consulting services; develops training programs and materials.

Facilities include automated experimental apparatus for research on the unit operations and processes of environmental engineering and facilities for teaching and research in air and water quality control.

South Carolina Agricultural Experiment Station

0543 Agricultural Communications Department
Clemson University
Clemson, S.C. 29631
Tel: (803) 654-2421 Ext. 270

AREAS OF INTEREST: General agriculture; production, marketing, and utilization of crops and livestock; home economics; insects; diseases of plants and animals; soils; water use.

PUBLICATIONS: *Clemson University Agricultural Research* (biannual); technical reports and bulletins, news releases.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

Water Resources Research Institute

0544 Clemson University
Clemson, S.C. 29631
Tel: (803) 654-2421 Ext. 315 or 209

AREAS OF INTEREST: Water cycle; hydrology; irrigation; evapotranspiration; water yield; soil properties and evaporation; water economics; sedimentation; relation between water pollution and industrial development; water quality and waste assimilation in newly created bodies of water; waste disposal; ecology of fresh water organisms; stream pollution instrumentation; stochastic models; estuarine zoning; planning techniques; taxation and subsidies; limnological parameters; biologic detection.

PUBLICATIONS: Circulars, bulletins, papers.

INFORMATION SERVICES: Answers inquiries; makes referrals; conducts research for fee.

CLEVELAND MUSEUM OF NATURAL HISTORY

Natural Science Museum

0545 Cleveland Museum of Natural History
10600 East Blvd.
Cleveland, Ohio 44106
Tel: (216) 231-4600

AREAS OF INTEREST: Natural history (see holdings).

HOLDINGS: 3 million cataloged specimens in all major science fields. The Earth Sciences Gallery relates the history of our planet, the beginnings of life, and the story of Ohio's natural resources; the Life

Sciences Gallery reviews principles of biology and depicts major aspects of animal evolution; the Gallery of Man depicts man's origin and development and features Ohio and North American Indian cultures. Other displays include the trees and forests of Ohio, a resume of Ohio ecology, edible and poisonous mushrooms, dioramas, Ohio and world insects, rare books, an outdoor labeled wild plants garden, and living animals. The Museum also has the Mueller Observatory and Planetarium, four wildlife preserves totaling more than 1,000 acres, and the Cleveland Aquarium.

PUBLICATIONS: *The Explorer Magazine* (quarterly); *Kirklandia* and a scientific publication series.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite reference.

CLEVELAND PUBLIC LIBRARY

Science and Technology Department

0546 Cleveland Public Library
325 Superior Ave. NE.
Cleveland, Ohio 44114
Tel: (216) 241-1020

AREAS OF INTEREST: Engineering and basic science, including aeronautics, automobiles, geology, guns, mechanics, metallurgy, organic chemistry, paints, paper, plastics, pollution, and history of science and engineering.

HOLDINGS: 270,000 volumes; depository collections of AEC, NASA, and Rand Corporation publications; foreign technical dictionaries, U.S. patent specifications, abridgements of Canadian and British patents, U.S. and British technical papers, standards and specifications, Great Lakes index, periodicals and serials dating from 18th century, maps, microforms.

PUBLICATIONS: *Business and Technology Sources*; *Bulletin*.

INFORMATION SERVICES: Makes limited interlibrary loans; provides duplication services; permits onsite reference.

CLIMAX MOLYBDENUM CO.

0547 1270 Avenue of the Americas
New York, N.Y. 10020
Tel: (212) 757-9700

AREAS OF INTEREST: Molybdenum and tungsten and products containing these elements; toxicology; geology.

HOLDINGS: Books, journals, reports, patents, films, photos, data, and special collection on molybdenum.

PUBLICATIONS: *Abrasion Resistant News* (annual); *Climelt News* (annual); *Moly Pays Off* (semiannual); *Molysulfide Newsletter* and *Tungsten News* (quarterlies); reports, standards and specifications, state-of-the-art reviews, bibliographies, data handbooks, translations.

INFORMATION SERVICES: Answers inquiries; provides reference, duplication, and consulting services; provides abstracts.

CLIMAX MOLYBDENUM CO. OF MICHIGAN

Research Laboratory Library

0548 Climax Molybdenum Co. of Michigan
1600 Huron Parkway
Ann Arbor, Mich. 48105
Tel: (313) 761-2300

AREAS OF INTEREST: Chemistry; metallurgy; chemical engineering; metallurgical engineering; lubrication (tribology); alloying; cast iron; foundry metallurgy; foundry practice; steels; stainless steels; tool steels; superalloys; specialty steels; molybdenum alloys; zirconium alloys; cobalt alloys; catalysis; corrosion inhibition; pigments.

HOLDINGS: Approximately 30,000 abstract cards on the metallurgy and chemistry of molybdenum indexed in accordance with the Jonker Termatrex Information System; 2,000 books; 8,000 patents; 5,000 Climax research reports; 50 drawers of external reports (U.S. Government, NASA, Bureau of Mines, SAE, DMIC, etc.); 130 magazines; alloy specifications, Climax publications and reprints, slides, catalogs.

INFORMATION SERVICES: Provides literature-searching services.

COAST AND GEODETIC SURVEY

see Commerce, Department of. Environmental Science Services Administration

COAST GUARD

see Transportation, Department of

COASTAL ENGINEERING RESEARCH CENTER

see Army, Department of the. Office of the Chief of Engineers

COASTAL STUDIES INSTITUTE

see Louisiana State University

COBALT INFORMATION CENTER

see Battelle Memorial Institute

T. H. COCHRANE LABORATORIES

0549 5803 West National Ave.
Milwaukee, Wis. 53214
Tel: (414) 476-2500

AREAS OF INTEREST: Metallurgy; pressure vessel construction and design; quality control.

HOLDINGS: 300 reports; standards, periodicals, data.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides heat treat consultation (hardening of steel and aluminum) for fee; permits onsite reference.

COLGATE-PALMOLIVE CO. INFORMATION CENTER

0550 909 River Rd.
Piscataway, N.J. 08854
Tel: (201) 846-1212 Ext. 277

AREAS OF INTEREST: Soaps; detergents; dentifrices; cosmetics; fats and oils; glycerines; organic, inorganic, physical, and colloid chemistry; biochemistry; chemical technology; biological sciences.

HOLDINGS: 30,000 volumes; 2,130 volumes on microfilm; 8,500 reports; 350 reels of microfilm; 25 vertical file drawers of trade literature; 150 file drawers of company technical documents; 150 reels of magnetic tapes on seminars and conferences; a specialized collection on soaps.

PUBLICATIONS: *Current Technical Information* (weekly abstract bulletin of current journal literature); *Research Reports Abstracts Bulletin* (monthly, confidential); annual report.

INFORMATION SERVICES: Answers telephone reference questions; provides duplication, bibliographic, literature-searching, and translating services; makes interlibrary loans; distributes Colgate Author reprints.

COLLEGE OF THE HOLY CROSS

Department of Chemistry

0551 College of the Holy Cross
Worcester, Mass. 01610
Tel: (617) 793-3379

AREAS OF INTEREST: Crystal growth of sucrose crystals; separation of active allergen in ragweed pollen; preparation and evaluation of specificity of Ziegler catalysts.

HOLDINGS: Moderate reference collection of books, periodicals, and reports; departmental theses.

PUBLICATIONS: Departmental theses and publications by staff members.

INFORMATION SERVICES: Answers inquiries. Information on Ziegler catalysts is limited to what has been published in departmental theses.

COLOR ASSOCIATION OF THE UNITED STATES, INC.

0552 200 Madison Ave.
New York, N.Y. 10016
Tel: (212) 685-5881

AREAS OF INTEREST: Colors, their standardization, and the forecasting of color trends throughout industry 12 to 18 months ahead.

PUBLICATIONS: Standard color cards; color forecasts (twice a year).

INFORMATION SERVICES: Answers inquiries; provides reference and consulting services; provides standard color cards and standard color swatches for fee; provides color forecasts to members only.

COLOR MARKETING GROUP

0553 1000 Vermont Ave. NW.
Washington, D.C. 20005

AREAS OF INTEREST: Selection, styling, and marketing of products in color; color trends; color coordination in related products; color production; color application; statistics on color; regional preferences; color names; consumer education; color aptitude tests; education programs for college levels; the effect of light on color.

PUBLICATIONS: Bibliographies, committee reports, papers presented at meetings.

INFORMATION SERVICES: Answers inquiries; makes referrals; disseminates color trend data to members. A fee may be charged for services.

COLORADO AGRICULTURAL EXPERIMENT STATION

see Colorado State University

COLORADO DEPARTMENT OF HEALTH

Division of Engineering and Sanitation

0554 Colorado Department of Health
4210 East 11th Ave.
Denver, Colo. 80220
Tel: (303) 388-6111

AREAS OF INTEREST: Municipal and industrial waste treatment and disposal; water treatment; public water supplies; public swimming places; solid wastes disposal; food and drug purity; food sanitation; general sanitation.

INFORMATION SERVICES: Answers inquiries; makes referrals.

COLORADO DEPARTMENT OF HIGHWAYS LIBRARY

0555 4201 East Arkansas Ave.
Denver, Colo. 80222
Tel: (303) 757-9308

AREAS OF INTEREST: Highway engineering; traffic engineering; urban transportation; highway law; highway research; highway materials and testing; geology; construction and maintenance; highway structures and bridges; hydraulics; landscaping and roadside development; traffic safety; history of road-building and Colorado highways.

HOLDINGS: Over 2,500 books; 182 bindery volumes of periodicals, plus unbound back issues of important periodicals; 135 periodicals and journals currently received; bound volumes of Highway Research Board technical reports and over 1,600 unbound technical reports; 19,430 aerial photos; maps, charts, data.

PUBLICATIONS: *Over the Highways* (weekly); *Colorado Highway* (monthly house organ for Department employees); *Highway Map* (annual); metropolitan area maps, county maps, traffic surveys, reports on research studies, traffic rules and regulations for drivers, manuals, data handbook, acquisitions lists.

INFORMATION SERVICES: Provides information on highway construction projects; provides reference services; provides reproduction services with approval of the Chief of Administrative Services; makes direct and interlibrary loans; permits onsite reference.

COLORADO DEPARTMENT OF NATURAL RESOURCES

Bureau of Mines

0556 Colorado Department of Natural Resources
1845 Sherman St.
Denver, Colo. 80203
Tel: (303) 892-3401

AREAS OF INTEREST: Mineral resources and operations of the mineral industry in Colorado; production statistics on minerals, such as metals, coals, molybdenum, uranium, vanadium, and other metals, oil, gas, zinc, tungsten, lead, copper, gold, silver, nonmetallic minerals (e.g., sand and cement), and fluorspar.

HOLDINGS: 4,350 books; 3,000 periodicals; 1,200 reprints; 42,500 mine information and inspection reports; 2,000 maps and charts; publications of the Colorado School of Mines, U.S. Geological Survey, U.S. Bureau of Mines, Colorado Scientific Society Proceedings, and Colorado Geological Survey (1909-1925).

PUBLICATIONS: Bulletins, circulars, annual report. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and reference services; permits onsite use of collection.

Division of Water Resources

0557 Colorado Department of Natural Resources
101 Columbine Bldg.
1845 Sherman St.
Denver, Colo. 80203
Tel: (303) 892-3581

AREAS OF INTEREST: Administration of water rights; design, construction, safety, and maintenance of reservoir dams; administration of Ground Water

Management Act under the Colorado Ground Water Commission; enforcement of well completion rules and regulations under the direction of the Board of Examiners of Water Well Drilling and Pump Installation Contractors; ground-water data and information relative to all areas of Colorado; legislation; planning for administration and management of water resources.

HOLDINGS: Water filings; specifications of plans for dams; records of court decrees pertaining to water and water rights; well records and related geological data; orders of the Colorado Ground Water Commission; orders of the Board of Examiners of Water Well Drilling and Pump Installation Contractors.

PUBLICATIONS: Procedures for filing plans for dam and reservoir construction; rules and regulations for well drillers and pump installers; ground water studies and hydrologic studies of various basins; tabulations of decreed water rights by priority; ground water law; resume of new legislation on adjudication of rights.

INFORMATION SERVICES: Answers inquiries on water holdings free if inquiries are made in person; provides advice on procedures on reservoir design and construction in Colorado; makes available copies of maps, plans, decrees, and records for small fee.

COLORADO OIL INSPECTION DEPARTMENT

0558 1024 Speer Blvd.
Denver, Colo. 80204
Tel: (303) 222-9911 Ext. 2096 or 2097

AREAS OF INTEREST: Inspection, in Colorado, of fuel products, including petroleum products, liquefied petroleum gas, and antifreeze, and of related equipment and facilities.

HOLDINGS: Books, pamphlets, reports, reprints, maps, charts, graphs, tables, standards and specifications, newsletters, publication lists, clippings.

INFORMATION SERVICES: Answers inquiries; makes referrals; conducts chemical tests on gasoline, benzene, diesel, kerosene, and antifreeze; permits onsite reference to information on the petroleum and liquefied petroleum gas industries.

COLORADO RIVER ASSOCIATION

0559 417 South Hill St.
Los Angeles, Calif. 90013
Tel: (213) 626-4621

AREAS OF INTEREST: Water problems of 11 western States (supply/demand balance for the future), with particular reference to the Colorado River and to California's stake in the water of that River.

HOLDINGS: 500 books; 25 periodical titles; 500 reports.

PUBLICATIONS: Newsletter (monthly); reports, news announcements.

INFORMATION SERVICES: Answers inquiries; provides reference and consulting services.

COLORADO RIVER BOARD OF CALIFORNIA LIBRARY

0560 302 California State Bldg.
217 West 1st St.
Los Angeles, Calif. 90012
Tel: (213) 620-4480

AREAS OF INTEREST: The Colorado River in historic times; Colorado River "Law of the River," including the Colorado River Compact, Boulder Canyon Project Act, California Limitation Act, Mexican Water Treaty, Colorado River Storage Project Act, Colorado River Basin Project Act, and the U.S. Supreme Court decree in Arizona v. California; water rights; water resources and projects, including planning, development, and economics; water supply and use; water quality; water reclamation; hydrology; engineering; agriculture.

HOLDINGS: 8,700 books; about 1,500 scientific and technical reports; about 1,000 U.S. Geological Survey publications, including water supply papers, professional papers, and circulars; about 500 California Department of Water Resources publications; 50 periodicals.

PUBLICATIONS: Annual report.

INFORMATION SERVICES: Answers inquiries; provides reference services; makes referrals; makes interlibrary loans; permits onsite use of collection by appointment.

COLORADO RIVER WATER USERS ASSOCIATION

0561 c/o Mr. L. Y. Siddoway, Association President
Central Utah Water Conservation District
Route 1, Box 468
Vernal, Utah 84078

AREAS OF INTEREST: Colorado River waters, including use by members in the Colorado River Basin, legislation, and proposals for irrigation, power, and land development of Basin areas.

PUBLICATIONS: Proceedings.

INFORMATION SERVICES: Answers inquiries; makes referrals.

The Association protects the rights and interests of members using Colorado River waters and safeguards Federal-State water and power development contracts.

COLORADO SCHOOL OF MINES

Arthur Lakes Library

0562 Colorado School of Mines
Golden, Colo. 80401
Tel: (303) 279-3381

AREAS OF INTEREST: Geology; geophysics; metallurgy; mining; petroleum production; refining engineering; chemistry; mathematics; physics; humanities.

HOLDINGS: About 130,000 books, serials, reviews, abstracts, indexes, and bibliographies; over 49,000 maps; 2,060 mine reports (original typescript collection); about 8,000 well logs, chiefly of Rocky Mountain and mid-Continent regions; about 500 volumes (mostly serials) on roll film and microcards; U.S. Government nondepository documents from 1953 to 1962 and AEC publications for 1963 only on microcards.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference by members of the scientific and technical community.

Cecil H. Green Geophysical Observatory Library

0563 Department of Geophysics
Colorado School of Mines
Golden, Colo. 80401
Tel: (303) 279-3381

AREAS OF INTEREST: Seismology; elastic waves; earth tides, strains, and tilts.

HOLDINGS: Seismograms and earth tide records.

INFORMATION SERVICES: Answers inquiries; permits onsite reference.

Department of Mining Engineering

0564 Colorado School of Mines
Golden, Colo. 80401
Tel: (303) 279-3381

AREAS OF INTEREST: Mining engineering; rock mechanics; computer applications; drilling and blasting; rock boreability.

HOLDINGS: 3,600 slides; 10 motion pictures; 29 reels of magnetic tape; rock mechanics instrumentation; books, reports, reviews, periodicals, preprints, reprints, bibliographies, maps, charts, punched cards, standards and specifications.

PUBLICATIONS: Quarterly journal.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services for fee; permits onsite reference.

COLORADO SCHOOL OF MINES RESEARCH INSTITUTE

0565 P.O. Box 112
Golden, Colo. 80401
Tel: (303) 279-2581

AREAS OF INTEREST: Chemical, metallurgical, and mining research.

HOLDINGS: Small reference collection of books.

PUBLICATIONS: *Colorado School of Mines Mineral Industries Bulletin*(bimonthly abstract journal).

INFORMATION SERVICES: Answers inquiries. The Institute operates a prospector service for the State of Colorado to identify rocks and minerals and to make available information to assist the mining industry.

COLORADO STATE UNIVERSITY

College of Engineering

0566 Colorado State University
Engineering Research Center
Fort Collins, Colo. 80521
Tel: (303) 491-8655

AREAS OF INTEREST: *Atmospheric Science Department:* Weather modification; cloud processes; atmospheric water resources; precipitation from orographic clouds; atmospheric dynamics; jet streams; atmospheric transport processes; mountain lee waves; atmospheric radiation transfer; evaporative processes; tropical meteorology; hurricane formation; environmental meteorology; air pollution and inadvertent weather modification; instrumental meteorology; agriculture meteorology. *Civil, Mechanical, and Agricultural Engineering Departments:* Engineering; hydraulics; fluid mechanics;

fluid dynamics; hydrology; kinetics of flow; laminar flow; turbulent flow; channel design; water resources; water conservation; diffusion in gases and fluids; watershed response; cavitation in hydraulic machinery; instrumentation; laboratory simulation of atmospheric phenomena on micro- and meso-scale in meteorological wind tunnels; wind-water interaction; air and water pollution; turbulent wakes; dynamics of ion beams; photogrammetry; sanitary engineering; irrigation systems; water resources management; water-soil interaction; systems analysis.

HOLDINGS: The Atmospheric Science Department maintains a collection of books, periodicals, reprints, documents, and weather maps. Weather data, in depth, is collected and held in punched card form on magnetic tape and on microfilm. The Engineering Research Center houses a working collection of books, journals, reports, indexes, and abstracts in the fields of current research. Indexes available include the specialized Hydraulics Documentation Index published by the Delft Hydraulics Laboratory in Holland. Project directors hold much specific data on hydrology, precipitation, river flow observations, and water level summaries.

PUBLICATIONS: Fluid Mechanics Papers, Hydrology Papers, Proceedings of the International Hydrology Symposium held at Fort Collins in September, 1967, various reports, pamphlets, and reprints. A publications list is available.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services for fee; permits onsite reference.

Specialized facilities of the Atmospheric Science Department include: an instrumented weather station with facsimile equipment on FAA network; orographic cloud observation station at 12,000 feet with radar, snow vehicles, permanent buildings, and kite facility; a 200-foot walk-up meteorological tower, fully instrumented; weather radar observation facility with two M-33 radar installations and attendant service and test equipment; flight facility, including two leased aircraft, one University aircraft, and one sailplane, modified and instrumented for observation and research; machine shop; instrument shop; chemical laboratory; cold room for study of cloud physics; infrared, mass, and atomic absorption spectrophotometers; gas chromograph; and precision optical bench of research type. Facilities of the Civil, Mechanical, and Agricultural Engineering Departments include: a hydraulics laboratory with 12 tilting, recirculating, and controlled-bed flumes up to 200 feet long; fluid dynamics and diffusion laboratory with five wind tunnels, including one combined flume/wind tunnel, large ion stand, and stereoptical comparator; shock tube facility; electrokinetic laboratory; electronics laboratory; porous media laboratory; photogrammetry laboratory; structural laboratory with extensive test equipment; soil mechanics laboratory; radioisotope laboratory; hydromachinery laboratory with valve test capabilities to 36-inch diameter; outdoor laboratory with culvert study facility, urban storm drain facility, and model basin; rainfall-runoff model of idealized small watershed; and support facilities, including central computer access, extensive shop and instrumentation installations, and wide modeling capabilities.

Colorado Agricultural Experiment Station

0567 Colorado State University
Fort Collins, Colo. 80521
Tel: (303) 491-1101

AREAS OF INTEREST: Engineering, including agricultural, atmospheric sciences, electrical networks, fluid mechanics, hydraulics, hydrology, and space propulsion; physical sciences, including biochemistry, organic chemistry, and holography; biological sciences, including animal diseases, animal physiology and anatomy, animal breeding, avian sciences, botany and plant pathology, entomology, crop sciences, genetics, fishery and wildlife biology, forest and wood sciences, microbiology, and parasitology; range sciences; recreation; watershed management.

HOLDINGS: Seed reference collection, insect reference collection, plant herbarium.

PUBLICATIONS: *Colorado Farm and Home Research* (6 issues a year); bulletins.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Branch Stations: Eastern Colorado Range Station, Akron, Colo.; Southeastern Colorado Branch Station, Springfield, Colo.; San Juan Basin Branch Station, Hesperus, Colo.; Arkansas Valley Branch Station, Rocky Ford, Colo.; San Luis Valley Branch Station, Center, Colo.; Mountain Meadow Research Center, Gunnison, Colo.; and the following Western Slope Branch Stations: Orchard Mesa Unit and Fruita Unit, Grand Junction, Colo., and Austin-Rogers Mesa Unit, Austin, Colo.

Colorado State University Libraries

0568 University Campus
Fort Collins, Colo. 80521
Tel: (303) 491-6626

AREAS OF INTEREST: Mathematics, including applied mathematics and statistics; physics; chemistry; geology; agricultural engineering; civil engineering; electrical engineering; mechanical engineering; computer science; geophysics; atmospheric science, including all meteorology and climatology; fluid mechanics; hydraulics; aerodynamics; structural mechanics; soil mechanics; hydrology; irrigation and drainage; ecology; soil science; zoology; mycology;

microbiology; protozoology; medical technology; environmental health; virology; zoonoses; biochemistry; forestry; veterinary medicine; agriculture; botany; entomology; genetics; heredity; evolution; home economics; nutrition.

HOLDINGS: 710,000 volumes; 7,000 journals; a depository collection of Federal documents; reports, films, microtexts, maps, phonorecords.

INFORMATION SERVICES: Provides reference services, primarily to University students and faculty and staffs of research organizations and State agencies; makes interlibrary loans; permits onsite reference.

Department of Forest and Wood Sciences

0569 Colorado State University
Fort Collins, Colo. 80521
Tel: (303) 491-6637

AREAS OF INTEREST: Forestry, including forest management, forest biometry, and forest biology; wood science and technology, including wood mechanics, wood chemistry, wood anatomy, and wood properties in relation to processing and utilization.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries free; provides consulting services free or for fee, depending on amount of time involved.

Environmental Resources Center

0570 Colorado State University
Fort Collins, Colo. 80521
Tel: (303) 491-6952

AREAS OF INTEREST: Conservation of natural resources; public land policy; public water policy; wildlife management; water resources; water quality; hydrology; hydraulics; hydrogeology; water economics; land economics; plant-soil-water relationships; air pollution; regional planning; waste management and disposal (agricultural, municipal, industrial).

INFORMATION SERVICES: Answers inquiries; makes referrals.

The Center maintains research facilities for environmental quality-related studies in engineering, watershed management, soil science, plant science, forestry, ecology, radiation biology, geology, political science, sociology, psychology, chemistry, physics, microbiology, biochemistry, economics, and atmospheric science.

COLORADO WATER CONSERVATION BOARD

0571 Columbine Bldg., Room 102
1845 Sherman St.
Denver, Colo. 80203
Tel: (303) 892-3441

AREAS OF INTEREST: Water conservation and utilization in Colorado, including ground water, artesian ground-water reservoirs, irrigation, radiochemical analyses of water, hydrogeology, public water supplies, water laws, and the economics of ground water.

HOLDINGS: Books, reports, journals, project records, Board minutes, standards and specifications, maps, charts, graphs, tables, newsletters, publication lists, bibliographies, motion pictures, slides, microforms, data.

PUBLICATIONS: *Basic Data Ground Water Reports* and the *Ground Water Series*, consisting of bulletins and circulars. Miscellaneous publications include *Water Conservation and Conservancy Districts of the State of Colorado*, a compilation of pertinent State laws, and various pamphlets. A price list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite reference.

COLT INDUSTRIES

Crucible Materials Research Center Library

0572 P.O. Box 988
Pittsburgh, Pa. 15230
Tel: (412) 923-2955

AREAS OF INTEREST: Stainless steels; high-temperature alloys and materials; refractory metals; magnetic materials; titanium and titanium alloys; powder metals composites; tool steels; alloy steels.

HOLDINGS: 8,000 books; 261 periodical titles; 5,000 reports; patents, slides, preprints, reprints.

PUBLICATIONS: *Technical Abstract Bulletin*; *Annotated Accession List of Books*; *Classified Book Holdings*; *Library Guide*; literature reference lists, bibliographies, facility capability brochure.

INFORMATION SERVICES: Provides consulting services; makes interlibrary loans; permits onsite reference on a need-to-know basis.

COLUMBIA SCIENCE MUSEUM

0573 1519 Senate St.
Columbia, S.C. 29201
Tel: (803) 252-6975

AREAS OF INTEREST: Astronomy; physics; natural history; mammalogy; ornithology; herpetology; ichthyology; malacology; paleontology; botany; geology; anthropology.

HOLDINGS: 22,000 specimens (animals, fossils, rocks, minerals); 265 books; 200 photos; 350 slides; 220 reports.

PUBLICATIONS: *Columbia Science Museum Quarterly.*

INFORMATION SERVICES: Answers inquiries; provides consulting and identification services; makes referrals; lends materials to recognized institutions and individuals; permits onsite reference.

Facilities include a planetarium.

COLUMBIA UNIVERSITY

Columbia University Libraries

Information services are similar for all libraries described in the following listing. The libraries answer inquiries submitted in person or by telephone when material is available; provide reference and loan services to members of Columbia University and affiliated institutions; permit onsite reference of materials unique in the region; and make interlibrary loans (excluding material published in the past five years). *The Recorder* (semimonthly) is the combined publication of Columbia's science libraries.

Chemistry Library

0574 454 Chandler
Columbia University
New York, N.Y. 10027
Tel: (212) 280-4709

AREAS OF INTEREST: Organic and inorganic chemistry; chemical physics; chemical thermodynamics; enzyme chemistry; quantum mechanics; radiochemistry; chemistry of natural products; chemistry of alkaloids; isotopes in inorganic chemistry; synthetic methods in organic chemistry.

HOLDINGS: 35,000 volumes.

Engineering Library

0575 422 Seeley W. Mudd Bldg.
Columbia University
New York, N.Y. 10027
Tel: (212) 280-2976

AREAS OF INTEREST: Aeronautical, astronautical, chemical, civil, electrical, industrial, mechanical, and nuclear engineering; mining; metallurgy; applied science; bioengineering; ocean engineering; environmental engineering.

HOLDINGS: 80,000 volumes; 291,000 U.S. Government reports (the Library is a depository for major Government agency reports, which may be consulted by the general public); journals.

Geology Library and University Map Room

0576 601 Schermerhorn Hall
Columbia University
New York, N.Y. 10027
Tel: (212) 280-4522

AREAS OF INTEREST: Geology; meteorology; soils; geophysics; cartography; physical geography; hydrology; geochemistry; crystallography; mineralogy.

HOLDINGS: 75,000 volumes; 180,000 maps, including the complete series of geological and topographical maps published by the U.S. Geological Survey and charts of the U.S. Coast and Geodetic Survey, as well as equivalent series published by foreign governments.

Geoscience Library

0577 Lamont-Doherty Geological Observatory
Torrey Cliff
Palisades, N.Y. 10964
Tel: (914) 359-2900 Ext. 209

AREAS OF INTEREST: Earth sciences, specifially physical and biological oceanography, solid earth geophysics, general geochemistry, including radioactive dating, and seismology.

HOLDINGS: 8,600 volumes.

Mathematics and Science Library

0578 303 Mathematics Bldg.
Columbia University
New York, N.Y. 10027
Tel: (212) 280-4712

AREAS OF INTEREST: Mathematics and some aspects of applied mathematics, such as mathematical statistics and mathematical physics; history and philosophy of science; science and technology.

HOLDINGS: 17,000 volumes in mathematics; 70,000 volumes in general science; lecture notes; an extensive collection of mathematical tables; interdisciplinary publications in science and technology.

Physics Library

0579 801 Pupin Bldg.
Columbia University
New York, N.Y. 10027
Tel: (212) 280-3943

AREAS OF INTEREST: Physics; electricity; magnetism; heat and thermodynamics; atomic and nuclear physics; optics and spectroscopy; observational astronomy, celestial mechanics, and astrophysics.

HOLDINGS: 20,000 volumes.

Hudson Laboratories Library

0580 Columbia University
145 Palisade St.
Dobbs Ferry, N.Y. 10522
Tel: (914) 693-5800

AREAS OF INTEREST: Underwater sound; physical oceanography; fluid mechanics; molecular physics; applied mathematics; electronic instrumentation.

HOLDINGS: 3,000 books; 160 journal titles; 7,500 reports; maps, charts.

PUBLICATIONS: Journal articles (contributions series), technical reports.

INFORMATION SERVICES: Provides consulting services as recommended by military sponsor.

COLUMN RESEARCH COUNCIL

0581 Fritz Engineering Laboratory
Lehigh University
Bethlehem, Pa. 18015
Tel: (215) 867-5071

AREAS OF INTEREST: Design and behavior of columns and other compression elements in metal structures (behavior of beams, buckling strength of circular tubes, girders, plate panels, and curved compression members); structural behavior involving compression elements (beam-columns, stability of frameworks, thin-walled metal construction); dynamic instability; properties of metallic materials available for structural construction; test methods for compression members; development and promotion of formulas for the design of compression elements.

HOLDINGS: 500 reports; preprints, reprints.

PUBLICATIONS: *Guide to Design Criteria for Metal Compression Members* (1966); proceedings, annual report, brochures.

INFORMATION SERVICES: Answers inquiries; provides advisory services to researchers and engineers in stability; provides literature-searching and reference services; makes referrals; lends materials; permits onsite use of literature collection.

COMBUSTION ENGINEERING, INC.

Corporate Library

0582 Combustion Engineering, Inc.
Prospect Hill Rd.
Windsor, Conn. 06095
Tel: (203) 688-1911 Ext. 2477 or 2478

AREAS OF INTEREST: Power plants; boilers; corrosion; heat transfer; welding; nuclear physics; nuclear reactors; metallurgy; fuel analysis; combustion heating; air conditioning; water technology; steam; marine boilers; engineering; chemistry; engineering research; stress analysis; mathematics.

HOLDINGS: 6,000 books; 250 journals; 20,000 reports; films, photos, patents.

PUBLICATIONS: *Combustion* (monthly); technical reports, standards and specifications, index, bibliography.

INFORMATION SERVICES: Provides reference services; lends materials.

THE COMBUSTION INSTITUTE

0583 Union Trust Bldg.
Pittsburgh, Pa. 15219
Tel: (412) 391-1366

AREAS OF INTEREST: All aspects of combustion, flame, and explosion phenomena.

PUBLICATIONS: *Combustion and Flame* (bimonthly); *Symposium (International) on Combustion* (biennial).

INFORMATION SERVICES: Answers inquiries, makes referrals. The Institute's primary purpose is to organize a biennial symposium, with subsequent publication of contributed papers and attendant discussion in a bound volume of 1,200-1,400 pages.

COMMERCE, DEPARTMENT OF

Bureau of Domestic Commerce

Water Resources and Engineering Services Division

0584 Bureau of Domestic Commerce
U.S. Department of Commerce
14th St. and Constitution Ave. NW.
Washington, D.C. 20230
Tel: (202) 967-4347

AREAS OF INTEREST: Industrial water use (trends and projections for market research and river basin planning purposes); industrial pollution of water; materials and equipment for water supply and sewage systems; water works and sewage plant construction; water and sewage utilities (manpower and distribution of costs); capital investment values in water resources; power and municipal water use.

PUBLICATIONS: *Engineers Overseas Handbook*; technical reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides assistance and advice to U.S. consulting engineers operating overseas.

Bureau of the Census

Bureau of the Census Library

0585 Washington, D.C. 20233

Location:

Federal Office Bldg. No. 3, Room 2455
Suitland, Md.
Tel: (301) 440-1314

AREAS OF INTEREST: Demography; economics; political science; agricultural statistics; business statistics; international statistics; transportation; foreign trade; education; public health; public administration; housing; data processing; statistical methods.

HOLDINGS: About 200,000 books, pamphlets, and serials. Four special collections are maintained: (1) A set of publications issued by the Bureau of the Census and its predecessor organizations from 1790 to date, together with internal administrative manuals, texts, legislation, surveys, etc., pertaining to the Bureau; (2) Documentary materials from the States, from cities of over 25,000 population, and from selected counties, townships, special districts, and smaller cities, including extensive holdings of municipal charters and codes of ordinances; current publications dealing with the creation, organization, management, and operation of these governmental units; a current collection of election statistics for the States; (3) Censuses, statistical yearbooks, and bulletins from foreign countries; and (4) Texts, monographs, articles, technical papers, etc., on statistical methodology, with special attention to sampling and survey methods.

PUBLICATIONS: *Library Notes* (monthly).

INFORMATION SERVICES: Makes interlibrary loans; permits onsite use of collections; provides photoduplication services.

Transportation Division

0586 Bureau of the Census
Washington, D.C. 20233
Tel: (301) 440-1296

AREAS OF INTEREST: Transportation statistics, primarily from periodic censuses of transportation.

HOLDINGS: Data files in the form of punched cards and computer tape; special tabulations. Some of the tape files may be purchased and used by the purchaser for making tabulations.

PUBLICATIONS: Reports, including *Passenger Transportation Survey*, *Truck Inventory and Use Survey*, and *Commodity Transportation Survey* (two publications of each, one for 1963 and one for 1967), and *Motor Carrier Survey* (1963 only). Reports may be purchased from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402, or any Department of Commerce field office.

INFORMATION SERVICES: Disseminates data and prepares special tabulations at cost.

Economic Development Administration

Office of Public Works

0587 Economic Development Administration
U.S. Department of Commerce
Washington, D.C. 20230
Tel: (202) 967-5113

AREAS OF INTEREST: Community public works projects, including water delivery systems, reservoirs, water pollution control and sewerage systems, and sewage disposal plants.

HOLDINGS: A small reference library.

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes referrals.

Environmental Science Services Administration

Office of the Administrator

0588 ESSA
Washington Science Center, Building 5
Rockville, Md. 20852
Tel: (301) 496-8177

AREAS OF INTEREST: The environmental sciences in regard to the state of the oceans, the state of the upper and lower atmosphere, and the size and shape of the earth. ESSA conducts research to improve the quality and availability of environmental data and to ensure their widest and best use. Its five major components are: Coast and Geodetic Survey, Environmental Data Service, Research Laboratories, National Environmental Satellite Center, and Weather Bureau.

PUBLICATIONS: Biannual report on science and engineering.

INFORMATION SERVICES: Answers general inquiries regarding ESSA's gross scientific and technical programs, all within the physical sciences; more specific inquiries are referred to its special subordinate offices described separately below.

Administrative Operations Division

PUBLICATIONS SECTION

0589 Administrative Operations Division
ESSA
Washington Science Center, Building 2
Rockville, Md. 20852
Tel: (301) 496-8595

AREAS OF INTEREST: Atmospheric sciences; geophysical sciences; environmental science.

HOLDINGS: ESSA publications and directives; mailing, price, and distribution lists.

INFORMATION SERVICES: The Publications Section distributes ESSA publications and directives, including announcements of publications and meetings, to Federal agencies and the public after initial distribution to ESSA elements, and conducts general correspondence with the public on matters relating to the sale and availability of publications.

Coast and Geodetic Survey

ELECTRONIC COMPUTING DIVISION

0590 Coast and Geodetic Survey
Washington Science Center, Building 2
Rockville, Md. 20852
Tel: (301) 496-8166

AREAS OF INTEREST: Computer planning, programming, and processing of Coast and Geodetic Survey data, including geodetic, photogrammetric, cartographic, oceanographic, seismic, geomagnetic, fiscal, and administrative data.

HOLDINGS: Data, tapes, punched cards.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services on occasion; permits onsite reference.

OFFICE OF AERONAUTICAL CHARTING AND CARTOGRAPHY

0591 Coast and Geodetic Survey
ESSA
6001 Executive Blvd., Building 1
Rockville, Md. 20852
Tel: (301) 496-8072

AREAS OF INTEREST: Nautical and aeronautical charts and tables; cartographic processes and techniques.

HOLDINGS: Nautical charts dating back to 1835; fathograms and hydrographic survey records; raw data associated with the compilation of aeronautical charts.

PUBLICATIONS: Nautical and aeronautical charts and tables (catalogs are available).

INFORMATION SERVICES: Answers inquiries, including those concerned with lithographic and other cartographic processes and techniques.

OFFICE OF GEODESY AND PHOTOGRAMMETRY

0592 Coast and Geodetic Survey
ESSA
Washington Science Center, Building 1
Rockville, Md. 20852
Tel: (301) 496-8600

AREAS OF INTEREST: Geodesy; photogrammetry; related gravimetric and astronomic considerations.

HOLDINGS: Aerial photographs; manuscript coastline maps; airport obstruction charts; documented positions of electronic air navigation aids; geodetic control and related data, generally in both raw and compiled form.

PUBLICATIONS: Technical bulletins.

INFORMATION SERVICES: Answers inquiries; provides consulting services (a fee may be charged for extensive consultation). Holdings are available for loan or onsite use, but permission must be obtained in advance.

OFFICE OF HYDROGRAPHY AND OCEANOGRAPHY

0593 Coast and Geodetic Survey
ESSA
6001 Executive Blvd., Building 1
Rockville, Md. 20852
Tel: (301) 496-8660

AREAS OF INTEREST: Marine navigation, mapping, and charting; oceanography; marine geophysics.

HOLDINGS: Original hydrographic and topographic survey data; paper tapes and analog records of raw gravity, seismic reflection profiling, and magnetic measurements; tide and current records.

PUBLICATIONS: Nautical charts (waters contiguous to the United States, its possessions, and territories); bathymetric maps (Continental Shelf waters); U.S. Coast Pilot series (8 volumes); annual predicted tide tables (4 volumes) and tidal current tables (2 volumes); tidal current charts.

INFORMATION SERVICES: Answers inquiries; provides consulting services; permits onsite reference search; provides copies of field survey sheets, tide and/or current records, and other data holdings for fee.

OFFICE OF SEISMOLOGY AND GEOMAGNETISM

0594 Coast and Geodetic Survey
ESSA
Washington Science Center, Building 1
Rockville, Md. 20852
Tel: (301) 496-8030

AREAS OF INTEREST: Seismology; geomagnetism; related geophysical considerations.

HOLDINGS: 5 million punched cards containing hourly magnetic values. The Office also serves as the central depository for world earthquake data.

PUBLICATIONS: Related publications and charts.

INFORMATION SERVICES: Answers general inquiries; permits onsite reference to all holdings. Charts and publications are available for a nominal charge; data are furnished at cost of reproduction.

SCIENTIFIC DATA AND SERVICES DIVISION

Cartographic Support Branch

Archives Branch

0595 Cartographic Support Branch
Scientific Data and Services Division
Coast and Geodetic Survey
Washington Science Center, Building 1
Rockville, Md. 20852
Tel: (301) 496-8387

AREAS OF INTEREST: Oceanography; cartography; tides and currents; geodesy; astronomy; gravity.

HOLDINGS: Data.

INFORMATION SERVICES: Lends materials; permits onsite reference, but prior permission must be obtained through the Office of the Director of the Coast and Geodetic Survey.

Physical Science Service Branch

0596 Cartographic Support Branch
Scientific Data and Services Division
Coast and Geodetic Survey
Washington Science Center, Building 1
Rockville, Md. 20852
Tel: (301) 496-8031

AREAS OF INTEREST: Geographic research information as it applies to cartography.

HOLDINGS: Maps and charts, in microform and otherwise.

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes referrals; permits onsite use of collection.

Coast and Geodetic Survey Library

0597 Washington Science Center, Building 1
Rockville, Md. 20852
Tel: (301) 496-8039

AREAS OF INTEREST: Geophysics; geodesy; oceanography; tides and currents; estuarine hydrography; cartography; seismology; photogrammetry.

HOLDINGS: 130,000 volumes and 500 journal titles in all major languages; reports, atlases, charts, photos. Publications dating back to the early 19th century are included.

PUBLICATIONS: Accessions list (biweekly).

INFORMATION SERVICES: Answers inquiries; makes referrals; makes interlibrary loans of items not available in large university or public libraries; permits onsite use of collection by Government agencies and graduate students.

VISUAL AIDS SECTION

0598 Coast and Geodetic Survey
Washington Science Center, Building 1
Rockville, Md. 20852
Tel: (301) 496-8001

AREAS OF INTEREST: Coast and Geodetic Survey activities; oceanography; nautical and aeronautical cartography; geodesy; geophysics; photogrammetry; seismology; geomagnetism; astronomy; gravity.

HOLDINGS: Thousands of panchromatic and still photos; motion pictures illustrating Coast and Geodetic Survey activities; large selection of circulating exhibits.

PUBLICATIONS: Films, photos, exhibits.

INFORMATION SERVICES: Lends films and photos; permits onsite reference.

Environmental Data Service

0599 ESSA
Gramax Bldg.
8060 13th St.
Silver Spring, Md. 20910
Tel: (301) 495-2410

AREAS OF INTEREST: Climatology; meteorology (including satellites); hydrology; geomagnetism; aeronomy and space (upper atmosphere, ionosphere, airglow, cosmic rays, auroras, solar activity); tsunami; marine geophysics (gravity, hydrography, etc.).

HOLDINGS: All weather records routinely collected by the Federal Government, as well as large quantities of data acquired from foreign sources and from cooperative exchanges with State or local agencies and various research activities; geodetic control data established by Federal agencies, State agencies, and commercial firms; seismograms recorded since 1962 by a standardized global network of 114 stations, plus seismograms from a 25-station Canadian network; the largest collection of international geomagnetic data (magnetograms) in the world; aeronomy and space data from observatories around the world; seismological and tide data from an international tsunami warning network; physical oceanographic data collected by ESSA's Coast and Geodetic Survey vessels.

PUBLICATIONS: User publications include, among others, *Weekly Weather* and *Crop Bulletin*; *Climatological Data--National Summary* (monthly and annual); *Local Climatological Data* (monthly and annual, for principal cities or airports); *Climatological Data* (monthly and annual, by States); *Monthly Climatic Data for the World*; *Mariners Weather Log* (bimonthly); *High-Altitude Meteorological Data* (monthly); *Daily Series, Synoptic Weather Maps, Northern Hemisphere Sea Level* and *500 Millibar Charts* (an historic series, with a volume published about every 2 months); *Storm Data* (monthly); *Daily River Stages* (annual); *Daily Weather Maps, Weekly Series*; *Solar Geophysical Data* (monthly, two volumes: *Comprehensive Reports* and *Prompt Records*); bibliographies on the climate of, and climatic maps for, various areas of the world (available from the Clearinghouse for Federal Scientific and Technical Information, Springfield, Va. 22151); *Climates of the States*; *World Weather Records* (published each decade); *World Data Center A, Upper Atmosphere Geophysics* (irregular series); and the *Climatic Atlas of the United States*. In addition, the various WDC-A Subcenters within ESSA compile listings of their data holdings which are published annually by the National Academy of Sciences in World Data Center A data catalogs. (Under an agreement with the National Academy of Sciences, ESSA has responsibility for World Data Center A activities in seismology, gravity, tsunami, geomagnetism, meteorology and nuclear radiation, ionosphere and airglow, cosmic rays, auroras, and solar observations.)

INFORMATION SERVICES: Answers inquiries; analyzes, evaluates, and interprets data; permits onsite use of data collections; publishes and disseminates abstracts and indexes, bibliographies, periodicals, data compilations, and technical reports. These publications are global, national, or local in focus, and are available in synoptic, graphic, narrative, and tabular form. Besides its publications, the Environmental Data Service makes available microfilm, punched cards, magnetic tapes, radar and satellite film, original records or duplicate copies, autographic traces, film chips, etc. User services are provided at cost, except for routine letter or telephone replies or explanations, usually provided without charge. Because of the geographical separation of the data holdings, requesters are encouraged to address their inquiries directly to the appropriate records or data center as follows:

National Climatic Center, ESSA
Federal Bldg.
Asheville, N.C. 28801
Tel: (704) 254-0961

Aeronomy and Space Data Center, ESSA
Radio Bldg.
Boulder, Colo. 80302
Tel: (303) 447-3381

Geomagnetic Data Center, ESSA
WSC Building 1
Rockville, Md. 20852
Tel: (301) 496-8160

Seismological Data Center, ESSA
Federal Bldg.
Asheville, N.C. 28801
Tel: (704) 254-0297

Geodetic Data Center, ESSA
Federal Bldg.
Asheville, N.C. 28801
Tel: (704) 254-0295

International Tsunami Information Center, ESSA
P.O. Box 3887
Honolulu, Hawaii 96812
Tel: (808) 546-5698

Federal Coordinator for Meteorological Services and Supporting Research

0600 ESSA
Building 5, Room 818
6010 Executive Blvd.
Rockville, Md. 20852
Tel: (301) 496-8971

AREAS OF INTEREST: Federal meteorological requirements, services, and related supporting research.

PUBLICATIONS: *The Federal Plan for Meteorological Services and Supporting Research* (annual).

INFORMATION SERVICES: Provides consulting services to Federal agencies concerned with meteorological services and research.

National Environmental Satellite Center

0601 ESSA
Washington, D.C. 20233

Location:
Federal Office Bldg. 4
Suitland, Md.
Tel: (301) 440-7544

AREAS OF INTEREST: Meteorological satellites and data; television photography of the earth's surface, clouds, sea ice, and snow fields; measurements of infrared flux in several spectral intervals; infrared measurements of atmospheric water-vapor distribution; vertical temperature profiles of the atmosphere from infrared measurements; sea surface temperature from infrared measurements; wind estimates derived from cloud motions.

HOLDINGS: Photographs and infrared data transmitted by environmental satellites.

PUBLICATIONS: Bibliography of articles published by staff members (revised annually).

INFORMATION SERVICES: Answers inquiries; permits use of the satellite data collection by approved scientific researchers.

Office of Public Information

0602 ESSA
Washington Science Center, Building 5
Rockville, Md. 20852
Tel: (301) 496-8243

AREAS OF INTEREST: Entire spectrum of physical sciences of concern to ESSA, from the point of view of public relations.

PUBLICATIONS: *ESSA News*, *ESSA World*, and ESSA Dateline *for internal use; news releases and brochures for the public.*

INFORMATION SERVICES: Provides background and other authoritative information incident to public ESSA activities; answers requests from the public for general or popular scientific and technical information concerning ESSA and its activities.

Research Laboratories

OFFICE OF THE DIRECTOR

0603 Research Laboratories
ESSA
Physical Science Research Bldg. 2
30th St. and Arapahoe Ave.
Boulder, Colo. 80302
Tel: (303) 447-1000

AREAS OF INTEREST: Earth sciences; oceanography; atmospheric sciences; telecommunication sciences; aeronomy; solar physics.

INFORMATION SERVICES: Answers general inquiries regarding overall research programs; refers specific requests to the appropriate laboratories.

AERONOMY LABORATORY

0604 ESSA
Radio Bldg., Room 3001
Boulder, Colo. 80302
Tel: (303) 447-3218

AREAS OF INTEREST: Plasma physics; atmospheric collision processes; ionospheric studies with satellites and radar; optical aeronomy; the equatorial ionosphere; radio propagation; spectrophotometry of airglow and aurora.

PUBLICATIONS: Research reports; technical memoranda.

INFORMATION SERVICES: Provides consultation and information on Laboratory-related subjects.

AIR RESOURCES LABORATORIES

0605 ESSA
Gramax Bldg., Room 613
8060 13th St.
Silver Spring, Md. 20910
Tel: (301) 495-2252

Branches:

Division of Meteorology
National Air Pollution Control Administration
3820 Merton Dr.
Raleigh, N.C. 27609

Air Resources Turbulence and Diffusion Laboratory
P.O. Box E
Oak Ridge, Tenn. 37831
Tel: (615) 483-4301

Air Resources Las Vegas Laboratory
P.O. Box 14985
Las Vegas, Nev. 89114
Tel: (702) 734-3766

Air Resources Field Research Office
c/o Atomic Energy Commission
P.O. Box 2108
Idaho Falls, Idaho 83401
Tel: (208) 526-2329

Research Group:

Meteorology Statistics Group
Gramax Bldg., Room 600
8060 13th St.
Silver Spring, Md. 20910
Tel: (301) 495-2217

AREAS OF INTEREST: Urban air pollution; radioactive transport and fallout; atmospheric turbulence and diffusion; global and stratospheric diffusion and deposition of contaminants; high altitude balloon transport; interoceanic canal meteorology; polar meteorology research; sonic boom; nuclear testing.

PUBLICATIONS: Reports, articles, data compilations.

INFORMATION SERVICES: Answers inquiries pertinent to work of each laboratory or project; exchanges material; provides supporting services to AEC, Public Health Service, and other Government agencies cooperating or requiring such services.

ATLANTIC OCEANOGRAPHIC AND METEOROLOGICAL LABORATORIES

0606 901 South Miami Ave.
Miami, Fla. 33130
Tel: (305) 350-4104

AREAS OF INTEREST: Oceanography; marine geology and geophysics; sea-air interaction; estuarine hydrology and environment; cloud physics; hurricane research; ocean circulation and tide research.

PUBLICATIONS: Research reports, professional papers; collected reprint volume (annual).

INFORMATION SERVICES: Answers specific inquiries related to the work of the Laboratory; exchanges published material with the world scientific community; provides consulting services to other Government agencies.

National Hurricane Research Laboratory

0607 University of Miami Computing Center
P.O. Box 8265
Coral Gables, Fla. 33124

Location:

University of Miami Computing Center
1365 Memorial Dr.
Coral Gables, Fla.
Tel: (305) 350-4150

AREAS OF INTEREST: Tropical cyclones; hurricane modification experiments (Project STORMFURY); theoretical-numerical hurricane modelling; hurricane structure and dynamics; numerical hurricane prediction.

PUBLICATIONS: NHRL report series (technical memoranda); articles in *Monthly Weather Review*, *Science* and others.

INFORMATION SERVICES: Answers specific inquiries related to the work of the Laboratory; exchanges publications and data with interested Government agencies and the scientific community.

ATMOSPHERIC PHYSICS AND CHEMISTRY LABORATORY

0608 ESSA
Physical Science Research Bldg. 3
30th St. and Arapahoe Ave.
Boulder, Colo. 80302
Tel: (303) 447-1000

AREAS OF INTEREST: Atmospheric physics; chemistry; cloud physics; ozone; climate and weather modification; Great Lakes snow storms; hail and lightning; instrumentation.

PUBLICATIONS: Reports, articles.

INFORMATION SERVICES: Answers specific inquiries of a scientific or technical nature related to the work of the Laboratory; exchanges published material.

EARTH SCIENCES LABORATORIES

0609 ESSA
Physical Science Research Bldg. 2
30th St. and Arapahoe Ave.
Boulder, Colo. 80302
Tel: (303) 447-1000

AREAS OF INTEREST: Geomagnetism; seismology; geodesy; related earth sciences.

INFORMATION SERVICES: Answers specific inquiries of a scientific or technical nature related to the work of the Laboratories; consults with mutually interested groups or individuals; exchanges published material with the general scientific community.

GEOPHYSICAL FLUID DYNAMICS LABORATORY

0610 Princeton University
P.O. Box 308
Princeton, N.J. 08540

AREAS OF INTEREST: Fluid dynamics models; general circulation of ocean and atmosphere; thermal convection; experimental circulation prediction; numerical weather prediction.

INFORMATION SERVICES: Provides specific information regarding research programs and specific projects related to the work of the Laboratory; exchanges publications with the scientific community.

INSTITUTE FOR TELECOMMUNICATION SCIENCES

0611 ESSA
325 Broadway
Boulder, Colo. 80302
Tel: (303) 447-1000

AREAS OF INTEREST: Radio physics; ionospheric propagation predictions; tropospheric radio systems predictions; environmental radio physics; spectrum utilization; antenna design and applications; radio frequency assignment; radio meteorology.

PUBLICATIONS: *Ionospheric Predictions* (monthly).

INFORMATION SERVICES: Answers specific Institute-related inquiries of a scientific or technical nature; consults with mutually interested groups or individuals; exchanges published material with the general scientific community.

LIBRARY SERVICES

0612 ESSA Library
Radio Bldg.
325 Broadway
Boulder, Colo. 80302
Tel: (303) 447-1000 Ext. 3271

AREAS OF INTEREST: Primarily telecommunications sciences; aeronomy; cryogenics; engineering; electronics; geophysics; mathematics; meteorology; physics.

HOLDINGS: 53,000 volumes; 54,000 reports; 100,000 microfiche; 900 periodical subscriptions.

PUBLICATIONS: *Selected List* (weekly); *Reference Handbook of the Boulder Laboratories Library, Part I: Periodicals.*

INFORMATION SERVICES: Provides literature-searching and bibliographic services; makes interlibrary loans.

NATIONAL SEVERE STORMS LABORATORY

0613 1616 Halley Ave.
Norman, Okla. 73070
Tel: (405) 329-0388

AREAS OF INTEREST: Severe storm dynamics; tornado studies; electricity of severe storms; tornado forecasting; storm hazards to aircraft; radar storm detection; weather radar; thunderstorm forecasting; turbulence investigations.

INFORMATION SERVICES: Provides general and special information to FAA, USAF, NASA, and other Government agencies and investigators on Laboratory-related subjects; provides mesoscale meteorological data to the community of severe storm researchers; exchanges publications with the scientific community.

PACIFIC OCEANOGRAPHIC LABORATORIES

0614 1801 Fairview Ave. East
Seattle, Wash. 98102
Tel: (206) 583-4546

AREAS OF INTEREST: Physical oceanography; marine geology and geophysics; tsunamis; wave phenomena; magnetic characteristics of the sea bottom; bathymetric tectonics; continental drift and evaluation of ocean basins.

PUBLICATIONS: Research reports.

INFORMATION SERVICES: Answers specific inquiries regarding scientific and technical work of laboratories centered at Seattle (and the Joint Tsunami Research Effort in Honolulu).

PUBLICATION SERVICES

0615 ESSA
Physical Science Research Bldg. 3
30th St. and Arapahoe Ave.
Boulder, Colo. 80302
Tel: (303) 447-6292

AREAS OF INTEREST: Geomagnetism; seismology; geodesy; oceanography; sea-air and land-sea interactions; cloud physics; precipitation; chemical composition of the lower atmosphere; weather modification; atmospheric pollution; dynamics and physics of geophysical fluid systems; severe meteorological storms; solar-terrestrial relationships; space disturbances; aeronomy; remote sensing of the environment; propagation of electromagnetic waves; systems development; scientific documentation.

PUBLICATIONS: Research reports, technical memoranda.

INFORMATION SERVICES: Coordinates publication with internal and external publishers of reports and journals; develops systems for control, publication, and dissemination of technical information.

RESEARCH FLIGHT FACILITY

0616 P.O. Box 197
International Airport Branch
Miami, Fla. 33148
Tel: (305) 350-4139

AREAS OF INTEREST: Operation and flight of aircraft to study the internal structure of thunderstorms, hurricanes, cyclones, and other severe atmospheric disturbances, particularly the degree of turbulence within such storms and the development, maintenance, and magnitude of up-drafts and downdrafts; operation of aircraft as platforms for instruments designed to measure the physical parameters associated with meteorological phenomena; the design, development, installation, and operation of meteorological instruments; the dispersion of certain materials in the atmosphere for the purpose of weather modification, and the design, development, installation, and operation of dispersion apparatus.

INFORMATION SERVICES: Provides consulting services to interested agencies and investigators.

SPACE DISTURBANCES LABORATORY

0617 ESSA
Radio Bldg., Room 3050
Boulder, Colo. 80302
Tel: (303) 447-3311

AREAS OF INTEREST: Space disturbances; space environment forecasting; solar activity; solar X-rays; cosmic rays; solar terrestrial relations; solar wind; solar protons; magnetosphere; ionospheric disturbances; magnetic storm theory; auroras; trapped particles; polar cap events; nuclear explosive effects.

INFORMATION SERVICES: Provides forecasts of and data on ionospheric solar and space geomagnetic disturbances; provides daily forecasts and immediate warnings by subscription; cooperates with AEC, NASA, and other national and international organizations requiring services.

WAVE PROPAGATION LABORATORY

0618 ESSA
Physical Science Research Bldg. 3, Room 467
Boulder, Colo. 80302
Tel: (303) 447-6261

AREAS OF INTEREST: Optical propagation and scintillation; atmospheric spectroscopy; environmental radiometry; radio meteorology; micrometeorology; meteorological doppler radar; acoustics; atmospheric acoustics related to geophysical phenomena and electromagnetic wave propagation; acoustic sounding meteorology; radio refractivity; infrasonics.

INFORMATION SERVICES: Provides consulting services and advice on Laboratory-related subjects to Government and industry, national and international.

Scientific Information and Documentation Division

0619 ESSA
North Bethesda Office Center, Building 1
Rockville, Md. 20852
Tel: (301) 496-8486

AREAS OF INTEREST: ESSA's scientific and technical publications; announcement of publications, translations, and meetings; documentation, including research and development in documentation; oceanography; hydrography; seismology; geomagnetism; aeronomy; radio science; hydrology; climatology; atmospheric sciences; cartography; solar physics; geodesy.

PUBLICATIONS: *Monthly Weather Review*; *ESSA Monographs*; *ESSA Professional Papers*; *ESSA Technical Reports*; *ESSA Technical Memorandums*; *ESSA Science and Engineering* (biennial report); *Library Accessions List*; *ESSA Publications Announcement*; *Calendar of Events*; books, abstracts and indexes, bibliographies, research-in-progress reports, translations.

INFORMATION SERVICES: Responds to requests for scientific and technical information produced by ESSA and arranges for the exchange of such information with other Government agencies; refers highly specialized requests to ESSA libraries or other centers of competence; provides reference, literature-searching, abstracting and indexing, and translating services; disseminates publications. Services are free except where a major analysis effort or costly publication is involved.

ATMOSPHERIC SCIENCES LIBRARY

0620 ESSA
Gramax Bldg., Room 816
8060 13th St.
Silver Spring, Md. 20910
Tel: (301) 495-2405

AREAS OF INTEREST: Meteorology; hydrology; oceanography; climatology; physics of the atmosphere.

HOLDINGS: 165,000 bound volumes and pamphlets in all languages; extensive bibliography of meteorological (periodical) literature on cards.

PUBLICATIONS: *Library Accession List* (semimonthly, published jointly with the Geophysical Sciences Library of ESSA); bibliographies.

INFORMATION SERVICES: Answers inquiries; makes referrals; makes interlibrary loans; provides duplication services; permits onsite reference.

GEOPHYSICAL SCIENCES LIBRARY

0621 ESSA
Washington Science Center, Building 1
Rockville, Md. 20852
Tel: (301) 496-8021

AREAS OF INTEREST: Geophysical sciences; oceanography, including estuarine hydrography, geodesy, seismology, gravity, and geomagnetism; related fields of surveying, photogrammetry, and cartography.

HOLDINGS: Some 145,000 volumes and 630 journal titles in all major languages; reports, atlases. Publications dating back to the early 19th century are included.

PUBLICATIONS: *Library Accession List* (semimonthly, published jointly with the Atmospheric Sciences Library of ESSA).

INFORMATION SERVICES: Answers inquiries; makes referrals; makes interlibrary loans of items not available in large university or public libraries; provides limited hard copy duplication services; permits onsite reference by other Government agencies and graduate students.

Weather Bureau

0622 ESSA
8060 13th St.
Gramax Bldg.
Silver Spring, Md. 20910
Tel: (301) 495-2311

AREAS OF INTEREST: Meteorology, including aviation, agricultural, and satellite meteorology; atmospheric sciences; air-sea interaction; hydrology; climatology; atmospheric physics; air pollution transport and dispersion; weather modification; weather forecasting; instrument engineering.

PUBLICATIONS: *Daily Weather Map Weekly Series*; research and technical papers.

INFORMATION SERVICES: Answers inquiries regarding Weather Bureau activities; makes referrals to the appropriate organizational unit. Certain field offices of the Weather Bureau provide information and consulting services within their geographic and technological areas. Three lists of such stations follow. *LIST A* includes Weather Bureau Regional Offices. *LIST B* gives addresses of ESSA field offices that have been assigned State user services liaison responsibilities. *LIST C* includes State Climatologists.

LIST A. WEATHER BUREAU REGIONAL OFFICES

Regional climatologists, hydrologists, and other representatives of ESSA user services may be consulted at the following locations:

Eastern Region: Maine, New Hampshire, Vermont, Massachusetts, New York, Connecticut, Rhode Island, Pennsylvania, New Jersey, Delaware, Maryland, Virginia, West Virginia, Ohio, North Carolina, South Carolina

Weather Bureau Eastern Region
585 Stewart Ave.
Garden City, N.Y. 11530
Tel: (516) 248-2102

Southern Region: Georgia, Tennessee, Florida, Alabama, Mississippi, Louisiana, Arkansas, Oklahoma, Texas, New Mexico

Weather Bureau Southern Region
10E09 Federal Office Bldg.
819 Taylor St.
Fort Worth, Tex. 76102
Tel: (817) 334-2660

Central Region: Michigan, Wisconsin, Indiana, Illinois, Kentucky, Missouri, Iowa, Minnesota, North Dakota, South Dakota, Nebraska, Kansas, Colorado, Wyoming

Weather Bureau Central Region
601 East 12th St., Room 1836
Kansas City, Mo. 64106
Tel: (816) 374-3196

Western Region: Montana, Washington, Oregon, Idaho, Utah, Nevada, Arizona, California

Weather Bureau Western Region
Box 11188, Federal Bldg.
125 South State St.
Salt Lake City, Utah 84111
Tel: (801) 524-5131

Alaska Region: Alaska

Weather Bureau Alaska Region
632 Sixth Ave.
Anchorage, Alaska 99501
Tel: (907) 272-9522

Pacific Region: Hawaii

Weather Bureau Pacific Region
P.O. Box 3650
1149 Bethel St., Room 516
Honolulu, Hawaii 96813
Tel: (808) 546-5680

LIST B. WEATHER BUREAU FIELD OFFICES

The following list includes Weather Bureau field offices that have been assigned State user services liaison responsibilities in the 50 States, the District of Columbia, and Puerto Rico. Inquiries should be directed to the *Meteorologist in Charge* at the addresses given below. (NOTE: Telephone numbers followed by asterisks are "ring through" numbers--that is, the caller will first receive a recorded weather forecast, at the end of which, by allowing a few seconds to elapse, the call will ring through to a person with whom other business can be conducted.)

Weather Bureau Office
Dannelly Field, RFD 2
Montgomery, Ala. 36108
Tel: (205) 265-0589

Weather Bureau Forecast Office
Hill Bldg., Area 3-D
632 Sixth Ave.
Anchorage, Alaska 99501
Tel: (907) 277-3124

Weather Bureau Office
2800 Sky Harbor Blvd., Room 135
Phoenix, Ariz. 85034
Tel: (602) 273-7511*

Weather Bureau Office
Adams Field
Little Rock, Ark. 72202
Tel: (501) 374-6441

Weather Bureau Office
1641 Resources Bldg.
1416 Ninth St.
Sacramento, Calif. 95814
Tel: (916) 447-6941*

Weather Bureau Forecast Office
2520 Galena St.
Aurora, Colo. 80010
Tel: (303) 399-2541*

Weather Bureau Office
Bradley Field
Windsor Locks, Conn. 06096
Tel: (203) 623-5590

Weather Bureau Office
Airport Terminal Bldg.
151 North Dupont Parkway
New Castle, Del. 19720
Tel: (302) 328-7596*

Weather Bureau Forecast Office
Washington National Airport
Washington, D.C. 20001

Tel: (202) 628-4830

Director, National Hurricane Center
U.S. Weather Bureau
P.O. Box 8286
Coral Gables, Fla. 33124
Tel: (305) 666-4611

Weather Bureau Forecast Office
Atlanta Airport
Atlanta, Ga. 30320
Tel: (404) 766-4602

Regional User Services Representative
Weather Bureau Pacific Region
P.O. Box 3650
Honolulu, Hawaii 96813
Tel: (808) 588-679

Weather Bureau Forecast Office
P.O. Box 4345
Boise, Idaho 83705
Tel: (208) 344-2501*

Weather Bureau Office
214 Facilities Bldg.
Capital Airport
Springfield, Ill. 62702
Tel: (217) 523-5812

Weather Bureau Office
Weir Cook Municipal Airport
Indianapolis, Ind. 46241
Tel: (317) 244-3010

Weather Bureau Office
Municipal Airport
Des Moines, Iowa 50321
Tel: (515) 284-4497

Weather Bureau Office
Municipal Airport
Topeka, Kans. 66616
Tel: (913) 234-8659

Weather Bureau Office
P.O. Box 21256
Standiford Station
Louisville, Ky. 40221
Tel: (502) 363-9655*

Weather Bureau Forecast Office
701 Loyola Ave.
New Orleans, La. 70113
Tel: (504) 525-8645

Weather Bureau Office
Federal Bldg.
151 Forest Ave.
Portland, Maine 04101
Tel: (207) 772-2111*

Weather Bureau Office
Friendship International Airport
Baltimore, Md. 21240
Tel: (301) 766-3382*

Weather Bureau Forecast Office
General Aviation Administration Bldg., Logan International Airport
Maverick St.
East Boston, Mass. 02128
Tel: (617) 567-4670

Weather Bureau Office
Capital City Airport
Lansing, Mich. 48906
Tel: (517) 489-2414*

Weather Bureau Forecast Office
Federal Aviation Bldg.
6301 34th Ave. South
Minneapolis, Minn. 55450
Tel: (612) 729-7182

Weather Bureau Office
Municipal Airport, Allen C. Thompson Field
P.O. Box 5779
Jackson, Miss. 39208
Tel: (601) 939-5063

Weather Bureau Office
Rt. 1
Columbia, Mo. 65201
Tel: (816) 443-4332

Weather Bureau Office
Box 1711
Helena, Mont. 59601
Tel: (406) 442-8260

Weather Bureau Office
General Aviation Bldg.
Municipal Airport
Lincoln, Nebr. 68524
Tel: (402) 432-6436*

Weather Bureau Office
Reno Municipal Airport
2601 East Plumb Lane
Reno, Nev. 89502
Tel: (702) 329-2902

Weather Bureau Office
Municipal Airport
Concord, N.H. 03301

Tel: (603) 225-5191

Weather Bureau Office
National Aviation Facilities Experimental Center
Atlantic City, N.J. 08405
Tel: (609) 641-4325*

Weather Bureau Forecast Office
P.O. Box 9025
Municipal Airport
Albuquerque, N. Mex. 87119
Tel: (505) 242-8676

Weather Bureau Office
Albany County Airport
Albany, N.Y. 12211
Tel: (518) 869-7891*

Weather Bureau Forecast Office
Box 627
Raleigh, N.C. 27602
Tel: (919) 787-4644

Weather Bureau Office
Box 1016
Bismarck, N. Dak. 58501
Tel: (701) 223-3700*

Weather Bureau Office
Port Columbus International Airport
Columbus, Ohio 43219
Tel: (614) 231-5212*

Weather Bureau Forecast Office
Will Rogers World Airport
7100 Terminal Dr.
Oklahoma City, Okla. 73159
Tel: (405) 685-6350*

Weather Bureau Forecast Office
5420 Northeast Marine Dr.
Portland, Oreg. 97218
Tel: (503) 282-8600

Weather Bureau Office
Harrisburg State Airport
New Cumberland, Pa. 17070
Tel: (717) 233-7384

Weather Bureau Forecast Office
Isla Verde International Airport
San Juan, Puerto Rico 00913
Tel: (809) 791-0376

Weather Bureau Office
T.F. Green Airport
Warwick, R.I. 02886
Tel: (401) 737-5100*

Weather Bureau Forecast Office
Columbia Metropolitan Airport
West Columbia, S.C. 29169
Tel: (803) 794-4346

Weather Bureau Office
Administration Bldg.
Foss Field
Sioux Falls, S. Dak. 57104
Tel: (605) 336-2837*

Weather Bureau Office
Berry Field
Nashville, Tenn. 37217
Tel: (615) 256-4604

Weather Bureau Office
Airport Administration Bldg.
3600 Manor Rd.
Austin, Tex. 78723
Tel: (512) 476-0954

Weather Bureau Forecast Office
FAA-Weather Bureau Bldg., Room 118
175 North 2300 West
Salt Lake City, Utah 84116
Tel: (801) 524-5133

Weather Bureau Office
Burlington International Airport
Burlington, Vt. 05401
Tel: (802) 862-9883

Weather Bureau Office
Byrd Field
Sandston, Va. 23150
Tel: (703) 737-1213

Weather Bureau Forecast Office
7121 Federal Bldg.
Seattle, Wash. 98104
Tel: (206) 682-5318

Weather Bureau Office
Kanawha Airport
Charleston, W. Va. 25311
Tel: (304) 344-4232

Weather Bureau Office
3606 Stoughton Rd.
Madison, Wis. 53704
Tel: (608) 249-6644

Weather Bureau Office
Box 2238
Cheyenne, Wyo. 82001
Tel: (307) 638-3642

LIST C. STATE CLIMATOLOGISTS

On a statewide basis, State Climatologists offer document, reference, referral, and consulting services to all who seek solutions to climatological problems related to such activities as logging, grazing, commercial fishing, crop planting, building construction, transportation, recreation, and tourism. Questions may be directed to the *State Climatologist* by letter, by telephone, or in person at the following locations:

Alabama:
Weather Bureau Office for State Climatology
Dannelly Field, RFD 2
Montgomery, Ala. 36108
Tel: (205) 262-7270

Alaska:
Regional Climatologist
Weather Bureau Alaska Region
632 Sixth Ave.
Anchorage, Alaska 99501
Tel: (907) 274-9171

Arizona:
ESSA State Climatologist
Engineering Center, Room A106
Arizona State University
Tempe, Ariz. 85281
Tel: (602) 261-3900

Arkansas:
Weather Bureau Office for State Climatology
Adams Field
Little Rock, Ark. 72202
Tel: (501) 374-6441

California:
ESSA State Climatologist
Federal Office Bldg., Room 557
50 Fulton St.
San Francisco, Calif. 94102
Tel: (415) 556-7960

Colorado:
ESSA State Climatologist
P.O. Box 1079
Denver, Colo. 80201
Tel: (303) 534-4151

Connecticut:
ESSA State Climatologist
University of Connecticut
Box U87
Storrs, Conn. 06368
Tel: (203) 244-2000

Delaware see Maryland

Florida:
Weather Bureau Office for State Climatology
University Station
P.O. Box 14376
Gainesville, Fla. 32603
Tel: (904) 376-1791

Georgia:
Agricultural Engineering Bldg., Room 202
University of Georgia
Athens, Ga. 30601
Tel: (404) 546-6287

Idaho:
Federal Office Bldg., Room 481
550 West Fort St.
Boise, Idaho 83702
Tel: (208) 342-2350

Illinois:
Station A, Box 2810
Champaign, Ill. 61820
Tel: (217) 525-4011

Indiana:
ESSA State Climatologist
Agronomy Department
Purdue University
Lafayette, Ind. 47907
Tel: (317) 749-2454

Iowa:
U.S. Court House Bldg., Room 400
Des Moines, Iowa 50309
Tel: (515) 244-0425

Kansas:
403 Cardwell Hall
Kansas State University
Manhattan, Kans. 66502
Tel: (913) 235-1033

Kentucky:
Agronomy Department
University of Kentucky
Agricultural Experiment Station, Room 205
Lexington, Ky. 40506
Tel: (606) 252-2200

Louisiana:
Geology Bldg., Room 261
Louisiana State University

Baton Rouge, La. 70803
Tel: (504) 388-3143

Maine see Massachusetts

Maryland:
Symons Hall, Room 34
University of Maryland
College Park, Md. 20742
Tel: (301) 454-3110

Massachusetts:
U.S. Custom House, Room 1000
1-8 McKinley Square
Boston, Mass. 02109
Tel: (617) 567-4670

Michigan:
1405 South Harrison Rd.
Manly Miles Bldg.
East Lansing, Mich. 48823
Tel: (517) 372-1910

Minnesota:
127 Crops Research Bldg.
University of Minnesota
St. Paul, Minn. 55101
Tel: (612) 334-3012

Mississippi:
Box 5779
Thompson Field
Jackson, Miss. 39208
Tel: (601) 948-2566

Missouri:
P.O. Box 941
University of Missouri
Columbia, Mo. 65201
Tel: (314) 442-3186

Montana:
Weather Bureau Office
P.O. Box 1171
Helena, Mont. 59601
Tel: (406) 442-8260

Nebraska:
Weather Bureau Office
513 Nebraska Hall
901 North 17th St.
Lincoln, Nebr. 68508
Tel: (402) 475-3536

Nevada see Utah

New Hampshire see Massachusetts

New Jersey:
Department of Meteorology
College of Agriculture & Environmental Science
Rutgers University
New Brunswick, N.J. 08903
Tel: (201) 846-4287

New Mexico:
New Mexico State University
Agronomy Department, University Park
P.O. Box 30
Las Cruces, N. Mex. 88001
Tel: (505) 646-3948

New York:
1110 Bradfield Hall
Cornell University, Box 13
Ithaca, N.Y. 14850
Tel: (607) 273-1129

North Carolina:
ESSA State Climatologist
Box 5030
Raleigh, N.C. 27607
Tel: (919) 787-4856

North Dakota:
Walster Hall, Room 105
North Dakota State University
Fargo, N. Dak. 58102
Tel: (701) 237-5243

Ohio:
Box 15307, Civic Center Station
Columbus, Ohio 43215
Tel: (614) 221-6411

Oklahoma:
Weather Bureau Office
809 Post Office and Courthouse Bldg.
Oklahoma City, Okla. 73102
Tel: (405) 232-4901

Oregon:
M10 Multnomah Bldg.
319 Southwest Pine
Portland, Oreg. 97204
Tel: (503) 226-3727

Pennsylvania:
Pennsylvania State University
106 Research Bldg. A

University Park, Pa. 16802
Tel: (814) 237-1321

Puerto Rico:
U.S. Weather Bureau Office for Commonwealth Climatology
G.P.O. Box 4407
San Juan, Puerto Rico 00936
Tel: (809) 722-0239

Rhode Island see Connecticut

South Carolina:
Plant and Animal Science Bldg., Room F148
Clemson University
Clemson, S.C. 29631
Tel: (803) 253-8371

South Dakota:
Agricultural Engineering Bldg.
South Dakota State College
Brookings, S.Dak. 57007
Tel: (605) 692-6111 Ext. 257

Tennessee:
Weather Bureau Office for State Climatology
Berry Field
Nashville, Tenn. 37217
Tel: (615) 256-4604

Texas:
Weather Bureau Office for State Climatology
Airport Administration Bldg.
3600 Manor Rd.
Austin, Tex. 78723
Tel: (512) 476-9500

Utah:
Regional Climatologist
Weather Bureau Western Region
Box 11188 Federal Bldg.
Salt Lake City, Utah 84111
Tel: (801) 363-9024

Vermont see Massachusetts

Virginia:
Department of Agronomy
Virginia Polytechnic Institute
Blacksburg, Va. 24061
Tel: (703) 649-3611

Washington:
Weather Bureau Office
7005 Federal Office Bldg.
Seattle, Wash. 98104
Tel: (206) 682-3300

West Virginia:
Agricultural Engineering Bldg.
West Virginia University
Morgantown, W.Va. 26506
Tel: (304) 542-2266

Wisconsin:
443 Science Hall
University of Wisconsin
Madison, Wis. 53706
Tel: (608) 256-4224

Wyoming:
Weather Bureau Office
P.O. Box 2238
Cheyenne, Wyo. 82001
Tel: (307) 778-2376

NATIONAL METEOROLOGICAL CENTER

0623 ESSA
Washington, D.C. 20233

Location:
Federal Office Bldg. No. 4
Suitland, Md.
Tel: (301) 440-7156

AREAS OF INTEREST: Weather forecasting.

INFORMATION SERVICES: Answers inquiries regarding weather forecasts for any location in the world, for any period of time. Inquiries should be directed to the local Weather Bureau forecast office, which will obtain the information from its files or, when necessary, from the National Meteorological Center.

NATIONAL SEVERE STORMS FORECAST CENTER

0624 601 East 12th St., Room 1710
Kansas City, Mo. 64106
Tel: (816) 374-3427

AREAS OF INTEREST: Severe storms (hail 3/4-inch diameter and larger; wind gusts 50 knots or over; funnel clouds; tornadoes); techniques for forecasting severe storms; climatological data for Kansas City and St. Joseph, Mo.

HOLDINGS: Collection of reports of severe weather from 1955, including some damage surveys; climatological studies in severe storms; research papers on severe storms, mostly unpublished; hourly maps of radar plots from 1956 (on microfilm from 1956 through June 1968); slides, photographs, and movie footage of tornadoes and damage by severe storms; local climatological data for Kansas City, Mo., from 1888 and for St. Joseph, Mo., from 1910.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services; permits onsite use of collection.

OFFICE OF HYDROLOGY

0625 Weather Bureau
Gramax Bldg.
Silver Spring, Md. 20910
Tel: (301) 495-2265

AREAS OF INTEREST: Hydrometeorological criteria for development and management of water resources; standards for acquisition of data for hydrologic analyses and forecasts; estimated frequencies and extreme values of storm rainfall, snow accumulation and melt rates, wind velocities, and rain sequences; water movement in all phases of the hydrologic cycle; forecasting river water levels; coordination of international hydrologic activities.

HOLDINGS: Data compilations; daily river stages up to and including 1968.

PUBLICATIONS: Technical and research papers, hydrometeorological reports; water supply outlooks.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services to Government agencies.

Maritime Administration

Office of Research and Development

0626 U.S. Maritime Administration
441 G St. NW.
Washington, D.C. 20235
Tel: (202) 386-5355

AREAS OF INTEREST: New ship designs (nuclear-powered, hydrofoil, surface-effect); navigation aids; ship operations procedures; maintenance and repair procedures; human factors in ship operation; hull design research; ship automation; propulsion; terminal operations.

PUBLICATIONS: Reports, abstracts.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services to maritime industry and Government agencies. Information is generally free to Government and industry sources; some general information is available to the general public, but other information may be restricted to particular groups or available on a need-to-know basis only.

Office of Ship Construction

0627 U.S. Maritime Administration
441 G St. NW.
Washington, D.C. 20235
Tel: (202) 386-4973

AREAS OF INTEREST: Specifications of ships for Government use.

HOLDINGS: Collection on naval architecture and marine engineering (data, models, films, photographs, slides, ship plans in microform, project records, technical reports, standards, specifications), including materials in several European languages.

INFORMATION SERVICES: Answers inquiries; prepares analyses and evaluations for contracting shipbuilders and naval architectural firms on a need-to-know basis. Standards and specifications are distributed (or reproduced at the expense of the requester) for use in developing the U.S. Merchant Marine.

Public Information Office

0628 U.S. Maritime Administration
441 G St. NW.
Washington, D.C. 20235
Tel: (202) 386-4461

AREAS OF INTEREST: Shipping; shipbuilding and design; nuclear-powered ships; hydrofoil ships; surface-effect ships.

HOLDINGS: Photos, slides, films, technical reports, other publications.

PUBLICATIONS: *Technical Report Index*.

INFORMATION SERVICES: Answers inquiries; makes referrals; disseminates information on the agency's research projects to the press; supplies photographs without charge for use in publications; lends films and slides.

U.S. Merchant Marine Academy Library

0629 Kings Point, Long Island, N.Y. 11024
Tel: (516) 482-8200

AREAS OF INTEREST: Marine engineering; nautical science; cargo handling; ships and ship management; U.S. Merchant Marine; maritime periodicals.

HOLDINGS: Books, periodicals, microforms; Index to Maritime Periodicals (on cards).

INFORMATION SERVICES: Answers technical inquiries and inquiries concerning the Index to Maritime Periodicals; makes referrals; provides literature-searching services; makes interlibrary loans; permits onsite reference.

National Bureau of Standards

Analytical Chemistry Division

0630 National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-2318

AREAS OF INTEREST: Analytical chemistry, including characterization by radiochemical, microchemical, spectrochemical, electrochemical, and activation analysis, and separation and purification of materials; analytical mass spectrometry.

HOLDINGS: Reports and information on activation analysis, high purity materials, electron microprobe analysis, optical emission analysis, atomic absorption analysis, and trace analysis.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

Applied Mathematics Division

0631 National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-2318

AREAS OF INTEREST: Statistical engineering; numerical analysis; computer algorithms; operations research; mathematical and statistical tables.

HOLDINGS: Mathematical tables of elementary and special functions, mathematical and statistical handbooks, other working tools.

INFORMATION SERVICES: Provides consulting services; makes interlibrary loans to Government agencies; permits onsite use of collection.

Atomic and Molecular Ionization Processes Data Center

0632 National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-2792

AREAS OF INTEREST: Data on atomic and molecular ionization processes; ionization threshold energies; heats of formation of gaseous ions.

HOLDINGS: Complete collection of articles on ionization and appearance potentials since 1955.

PUBLICATIONS: *Ionization Potentials, Appearance Potentials, and Heats of Formation of Gaseous Positive Ions* (1969, NSRDS-NBS 26, available from U.S. Government Printing Office, Washington, D.C. 20402).

INFORMATION SERVICES: Answers inquiries; provides numerical and bibliographic information and reference services; permits onsite use of collection.

Atomic Energy Levels Data Center

0633 National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-3540

AREAS OF INTEREST: Atomic energy levels; electron configurations; quantum numbers; magnetic splitting factors; ionization potentials; atomic spectra.

PUBLICATIONS: *Atomic Energy Levels*; *Selected Tables of Atomic Spectra*; bibliographies on atomic energy levels and atomic spectra.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

Atomic Transition Probabilities Data Center

0634 National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-3374

AREAS OF INTEREST: Atomic transition probabilities; numerical values for specific transitions.

PUBLICATIONS: *Bibliography on Atomic Transition Probabilities* (NBS Special Publication 320, 1970; supersedes Miscellaneous Publication 278 and Monograph 50); *Atomic Transition Probabilities, Hydrogen Through Neon*, NSRDS-NBS 4, Vol. 1 (1966); *Atomic Transition Probabilities, Sodium Through Calcium*, NSRDS-NBS 22, Vol. 2 (1969); *Critically Evaluated Transition Probabilities for Ba I and II*, NBS Technical Note 474 (1969); Atomic Data 1, 1 (1969).

INFORMATION SERVICES: Provides data from the Center's files.

Building Research Division

0635 National Bureau of Standards
Washington, D.C. 20234

Location:
Gaithersburg, Md.
Tel: (301) 921-3375

AREAS OF INTEREST: Structural engineering; fire research; environmental engineering; building materials and composites; floor, roof, and wall coverings; building codes and safety standards; concreting materials; building systems.

INFORMATION SERVICES: Answers inquiries; provides consulting services to Government agencies, the scientific, professional, and academic communities, and building construction industry.

Center for Computer Sciences and Technology

0636 National Bureau of Standards
Washington, D.C. 20234

Location:
Gaithersburg, Md.
Tel: (301) 921-2318

AREAS OF INTEREST: Computer sciences and technology, including the design of systems oriented toward Government applications; selection, acquisition, and effective use of automatic data processing equipment by Federal agencies; voluntary commercial standards and uniform Federal standards for automatic data processing equipment, techniques, and computer languages; advanced concepts for the development, organization, and implementation of systems based on available computers; general-use computer programs.

HOLDINGS: The Center's Technical Information Exchange serves as a repository for source material for case histories and for the complete record of automatic data processing standardization efforts by the American Standards Association, the International Standards Organization, and the Federal Government.

PUBLICATIONS: Special technical summaries and state-of-the-art reports.

INFORMATION SERVICES: Answers inquiries; provides computing and data conversion services to other Government agencies on a reimbursable basis, together with supporting problems analysis and computer programming; provides advisory and consulting services to Government agencies on information systems based on the use of available computers and on the programming and languages of such computers. The Center's Technical Information Exchange provides referral services for the formal literature in the automatic data processing field and reference services for the informal literature and related materials, such as general-use computer programs.

Chemical Kinetics Information Center

0637 National Bureau of Standards
Washington, D.C. 20234

Location:
Gaithersburg, Md.
Tel: (301) 921-2581

AREAS OF INTEREST: Chemical kinetics; photochemistry; energy transfer; elastic scattering. Excludes heterogeneous catalysis.

HOLDINGS: Articles, reports, theses, bibliographies.

PUBLICATIONS: Bibliographies, tables, and rate data.

INFORMATION SERVICES: Answers brief inquiries; permits onsite use of collection; provides data and bibliographic information on published research on rates of chemical reactions. Services are available to all scientists and technical personnel with professional interests.

Chemical Thermodynamics Data Center

0638 Physical Chemistry Division
Institute for Materials Research
National Bureau of Standards
Washington, D.C. 20234

Location:
Gaithersburg, Md.
Tel: (301) 921-2773

AREAS OF INTEREST: Thermochemical and thermophysical properties of pure chemical substances in gas, liquid, and solid phases, and their aqueous solutions.

HOLDINGS: About 125,000 abstract data cards of thermodynamic information from about 60,000 books, reports, theses, papers, and periodicals.

PUBLICATIONS: *Selected Values of Chemical Thermodynamic Properties* (NBS Circular 500, out of print; revisions in NBS Technical Notes 270-1 and 270-2); *Thermal Properties of Aqueous Uni-univalent Electrolytes* (Monograph NSRDS-NBS 2); *Inorganic Substance-Property Index to the Bulletin of Thermodynamics and Thermochemistry* (annual).

INFORMATION SERVICES: Answers inquiries; provides consulting services. Extensive services are provided only to Government agencies and contractors.

Clearinghouse for Federal Scientific and Technical Information

The Clearinghouse was redesignated the National Technical Information Service (NTIS) effective September 1970 and is no longer a part of the National Bureau of Standards. See National Technical Information Service below.

Cryogenic Data Center

0639 National Bureau of Standards
Boulder, Colo. 80302
Tel: (303) 447-3257

AREAS OF INTEREST: Cryogenic processes, systems, and equipment; low-temperature data on properties of materials; thermodynamic properties of gases; thermal conductivity; thermal expansion.

HOLDINGS: Tables and charts of thermophysical property data; selected documents of world literature on cryogenics and thermodynamics of gases, coded on magnetic tapes for automated preparation of bibliographies.

PUBLICATIONS: Bibliographies; selected entropy Mollier diagrams of cryogenic fluids; technical information sheets, including graphs on thermal conductivity and data on thermal expansion; weekly announcement bulletins.

INFORMATION SERVICES: Answers inquiries and provides consulting services for the technical community.

Diatomic Molecule Spectra and Energy Levels Center

0640 National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-2021

AREAS OF INTEREST: Optical spectroscopic data and constants for diatomic molecules; molecular parameters derived from spectroscopic measurements. All pertinent regions of the electromagnetic spectrum are covered.

HOLDINGS: Data.

PUBLICATIONS: Monographs and compilations of critically evaluated data (published in the National Reference Data System series); bibliographies.

INFORMATION SERVICES: Answers inquiries; distributes bibliographic tab cards; compiles tables and evaluates data. Services are available to the technical community.

Electricity Division

0641 National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-2702

AREAS OF INTEREST: Electrical instruments; high voltage; absolute electrical measurements; electrical metrology.

INFORMATION SERVICES: Calibrates precision electrical standards measuring apparatus for a fee; provides consulting services to Government agencies.

Electromagnetic Metrology Information Center

0642 National Bureau of Standards
Boulder Laboratories
Boulder, Colo. 80302
Tel: (303) 447-1000 Ext. 3951

AREAS OF INTEREST: Radio frequency standards and measurement techniques for various electrical quantities (power, voltage, current, impedance, noise, attenuation, field strength, phase shift, etc.) in the frequency range from 30 kHz through the millimeter-wave frequencies.

HOLDINGS: The Center's own literature collection is small (5,000 articles), but it has access in the same building to an excellent technical library on measurement science and related technology.

PUBLICATIONS: Technical reports, current awareness list, abstracts, R&D summaries, state-of-the-art reviews, bibliographies.

INFORMATION SERVICES: Answers inquiries; arranges for technical consultation; provides reference and literature-searching services; provides R&D information; makes referrals; permits onsite use of the

Center's literature collection. Nominal services are free, but there is a charge based upon cost if service involves major effort. Services are available to the technical community.

Heat Division

0643 National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-2318

AREAS OF INTEREST: Cryogenic physics; equation of state; statistical physics; temperature; radiation thermometry; pressure measurements.

PUBLICATIONS: Specifications and standards.

INFORMATION SERVICES: Provides consulting services on the physics of heat without cost or on a contract basis to other Government agencies and to the technical community.

Inorganic Materials Division

0644 National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-2891

AREAS OF INTEREST: Inorganic chemistry; glass; high-temperature chemistry; solid state chemistry; physical properties; crystallography; solid state physics.

HOLDINGS: Phase diagrams of nonmetallic, inorganic anhydrous substances, compiled from journals, reports, and patents; scientific papers in several European languages.

PUBLICATIONS: *Phase Diagrams for Ceramists* (American Ceramic Society).

INFORMATION SERVICES: Answers inquiries; provides consulting services to Government agencies on a contract basis or without charge.

CRYSTAL-DATA CENTER

0645 National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-2837

AREAS OF INTEREST: Crystallographic data, especially cell dimensions and space group; identification of crystalline substances by single-crystal data.

HOLDINGS: Data.

PUBLICATIONS: *Crystal Data* (a semicritical compilation, continually revised and updated).

INFORMATION SERVICES: Answers inquiries; provides X-ray crystallographic data on all crystalline substances. Services are available to all scientific and technical personnel.

Institute for Applied Technology

TECHNICAL ANALYSIS DIVISION

0646 Institute for Applied Technology
National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-3563

AREAS OF INTEREST: Operations research (systems analysis); behavioral science; transportation; socioeconomics.

HOLDINGS: Small reference collection of books, periodicals, and reports.

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Answers inquiries free; provides consulting services to Federal, State, and local Government agencies for fee.

Instrumentation Information Center

0647 National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-2318

AREAS OF INTEREST: Instrumentation broadly, including instruments, instrument materials, components, devices, and systems.

HOLDINGS: Indexed abstracts of instrumentation literature; manufacturers' literature.

INFORMATION SERVICES: Answers inquiries; provides reference and consulting services to Government agencies and their contractors on a contract or no-cost basis; permits onsite reference to the information file.

Low Temperature Specific Heats Data Center

0648 National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-2742

AREAS OF INTEREST: Heat-capacity data in the range 0-300 K (analysis first on the elemental substances, then on the oxides, halides, etc.).

HOLDINGS: Data.

INFORMATION SERVICES: Answers inquiries; provides tables of closely spaced values of heat capacities from 0-300 degrees K and information on calorimeter design and equipment for making heat measurements, substances that are useful for testing and calibrating calorimeters, computer techniques for analyzing heat data, etc. Services are available to scientists engaged in heat capacity investigations, cryogenic engineers, chemical thermodynamists, and those interested in establishing a calorimetry laboratory.

Mechanics Division

0649 National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-2318

AREAS OF INTEREST: Acoustics; audiometry; sound; noise; acceleration; vibration measurements; shock; hygrometry; humidity measurements; force and strain measurements; hardness; engineering mechanics; mechanical properties of materials; rheology; viscosity; flow measurement; fluid meters; hydrodynamics; hydraulics; turbulence; aerodynamics.

INFORMATION SERVICES: Provides consulting services free or on a contract basis; provides calibration services on a fee basis.

Metallurgy Division

0650 National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-2318

AREAS OF INTEREST: Engineering metallurgy; alloy physics; lattice defects and microstructures; corrosion; metal physics; electrolysis and metal deposition; crystallization of metals.

INFORMATION SERVICES: Answers inquiries; provides consulting services without charge or under contract to Government agencies, the scientific community, and industry.

ALLOY DATA CENTER

0651 Alloy Physics Section
Metallurgy Division
National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-2917

AREAS OF INTEREST: Properties of metals, alloys (primarily binary), semimetallic materials, and intermetallic compounds. Properties of interest are structure-insensitive properties, including electronic transport properties, magnetic properties, selected mechanical properties, resonance properties, quantum description parameters, electromagnetic radiation, superconductivity, and thermodynamic properties. The Center also collects and evaluates data in those areas where special competence exists in the Alloy Physics Section of the Metallurgy Division, e.g., soft X-ray spectra and Knight shift data.

HOLDINGS: Data.

PUBLICATIONS: *Annotated Bibliography on Soft X-ray Spectroscopy* (NBS Monograph 52, 1952, kept up to date by the Center); *NBS Alloy Data Center: Permuted Materials Index* (NBS Special Publication 324, 1970); *NBS Alloy Data Center: Author Index* (available from the Clearinghouse for Federal Scientific and Technical Information, 1970). A compilation of reference books within the Center's scope, published in NBS Technical Note 464, is kept up to date by the Center.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and literature-searching services.

DIFFUSION IN METALS AND ALLOYS DATA CENTER

0652 Metal Physics Section
Metallurgy Division
National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-3354

AREAS OF INTEREST: Diffusion properties of metals and alloys.

HOLDINGS: Data.

PUBLICATIONS: Evaluated compilations of diffusion data will be published.

INFORMATION SERVICES: Answers inquiries; critically evaluates data. Services are available to U.S. Government agencies and their contractors, research and educational institutions, and industry.

Microwave Spectra Data Center

0653 National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-2024

AREAS OF INTEREST: Microwave spectra of molecules and the physical properties derived therefrom (rotational constants, etc.).

HOLDINGS: Data.

PUBLICATIONS: *Microwave Absorption Frequencies and Related Data.*

INFORMATION SERVICES: Answers inquiries from scientists with a professional interest.

National Bureau of Standards Library

0654 National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-3451

AREAS OF INTEREST: Mathematics; physics; metrology; mechanics; acoustics; optics; spectroscopy; nuclear physics; electricity and magnetism; chemistry (analytic, inorganic, organic, physical); crystallography; engineering; metallurgy; polymers; electronics; computer technology; standards and specifications; fire research; environmental pollution.

HOLDINGS: Over 100,000 books, bound volumes of periodicals, and publications of scientific and technical institutions throughout the world. About 3,000 periodicals are received currently.

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans; permits onsite reference.

Office of Engineering Standards Services

INFORMATION SECTION

0655 Office of Engineering Standards Services
National Bureau of Standards
Washington, D.C. 20234

Location:

State Road 124 adjacent to Rte. 705
Gaithersburg, Md.
Tel: (301) 921-2587

AREAS OF INTEREST: Engineering standards, specifications, test methods, and recommended practices covering most products and subjects except food and drugs.

HOLDINGS: Over 19,000 engineering standards and specifications published by more than 360 U.S. technical societies, professional organizations, and trade associations; small reference collection of books and periodicals.

PUBLICATIONS: Key-Word-In-Context (KWIC) Index of the 19,000 standards in the collection.

INFORMATION SERVICES: Answers inquiries; provides reference services; makes referrals; permits onsite use of collection.

Office of Invention and Innovation

0656 National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-3613

AREAS OF INTEREST: Processes of invention and innovation; programs for promoting use of inventions in Government agencies and in industry.

HOLDINGS: 1,000 books; periodicals, reports.

PUBLICATIONS: Pamphlets, including the following: *How to Submit Ideas & Inventions to the United States Government*; *State Invention Expositions*; and *Developing a State Invention Exposition.*

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes referrals.

Office of Standard Reference Data

0657 National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-2467

AREAS OF INTEREST: Physical and chemical properties of well characterized substances; thermodynamics and transport data; chemical kinetics; nuclear data; solid state data; colloid and surface chemistry; atomic and molecular data; computer processing of data.

HOLDINGS: A collection of the world's output of evaluated reference data in the physical sciences.

PUBLICATIONS: Tables of evaluated data and critical reviews issued in the *National Standard Reference Data Series* and other forms.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite use of collection. The Office administers the National Standard Reference Data System, the Government-wide complex of activities concerned with the compilation and critical evaluation of quantitative information on the physical and chemical properties of substances.

Office of Standard Reference Materials

0658 National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-2318

AREAS OF INTEREST: Standard reference materials, including all types of well-characterized materials that can be used to calibrate a measurement system or to produce scientific reference data; inorganic standards; metal standards; organic standards.

PUBLICATIONS: *Standard Materials Issued by the National Bureau of Standards.*

INFORMATION SERVICES: Answers inquiries; provides consulting services. The Office serves as a clearinghouse for standard reference materials activities.

Office of Technical Information and Publications

0659 National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-2318

AREAS OF INTEREST: Basic measurement standards; engineering standards; materials research; applied technology; data processing systems.

HOLDINGS: File of all National Bureau of Standards publications; slides, photos.

PUBLICATIONS: *Journal of Research of the National Bureau of Standards*, published in the following three sections: *Physics and Chemistry* (6 times a year), *Mathematical Science* (quarterly), and *Engineering and Instrumentation* (quarterly); *Technical News Bulletin* (monthly); nine nonperiodical series: *Applied Mathematics Series*, *Monographs*, *Handbooks*, *Special Publications*, *Building Science Series*, *National Standard Reference Data Series* (NSRDS), *Technical Notes*, *Product Standards*, and *Federal Information Processing Standards Publications* (FIPS PUBS).

INFORMATION SERVICES: Answers general inquiries about Bureau activities (technical inquiries are usually referred to the appropriate operating divisions of the Bureau); disseminates scientific findings and related information to scientists, industry, and the public; provides speakers for meetings.

Office of Weights and Measures Library

0660 National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-2401

AREAS OF INTEREST: Weights and measures (standards, laws and administration, units and systems).

HOLDINGS: Books and historical documents, with emphasis on the history of weights and measures administration.

INFORMATION SERVICES: Permits onsite reference by students and researchers.

Optical Physics Division

0661 National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-2171

AREAS OF INTEREST: Photometry; units and standards of length, mass, volume, color, and light (including ultraviolet and infrared); refractometry; calibrations and measurements of photographic apparatus; characteristics of photographic films; laser measurements; engineering metrology.

INFORMATION SERVICES: Answers inquiries; provides consulting services to Government, commercial, and scientific agencies on a contract or no-cost basis.

Photonuclear Data Center

0662 Center for Radiation Research
National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-2625

AREAS OF INTEREST: Experimental data pertaining to interaction of electromagnetic radiation with nuclei, including cross section data for inelastic electron scattering, photon scattering, particle capture, and photonuclear reactions.

HOLDINGS: Data.

PUBLICATIONS: *Photonuclear Data Index* (a periodically updated annotated index to the data on photonuclear reactions that have been published in the world's scientific literature).

INFORMATION SERVICES: Answers technical inquiries on subjects within the scope of the Center's operations; prepares formal and informal state-of-the-art surveys and correlations of data. Services are available to all scientists with professional interest in the field.

Polymers Division

0663 National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-2318

AREAS OF INTEREST: Natural and synthetic polymers (constants, properties, constitution, and structure; correlation between the chemical and physical structure and the properties); performance characteristics of polymeric products; test procedures for polymeric materials; measurement of physical and chemical properties of dental materials; structure of human tooth enamel and dentin; rubber; polymer solutions.

INFORMATION SERVICES: Conducts physical and chemical testing on polymeric materials for Federal and State agencies; cooperates with other Government agencies in evaluating the performance characteristics of polymeric products; cooperates with industry, technical societies, Government agencies, and national and international standardization bodies in measurement and standardization activities.

Program Information Office, Boulder Laboratories

0664 National Bureau of Standards
325 South Broadway
Boulder, Colo. 80302
Tel: (303) 447-1000 Ext. 3244

AREAS OF INTEREST: Laser power, energy and frequency measurements, and detectors; quantum electronics; plasma physics; radio science (electromagnetic standards, properties, measurement systems above 30 kHz, calibrations); atomic frequency and time interval standards and dissemination; cryogenics; laboratory astrophysics.

HOLDINGS: Slides.

PUBLICATIONS: Technical reports, articles, brochures, new releases.

INFORMATION SERVICES: Answers general inquiries regarding technical programs and activities at the Boulder Laboratories (technical inquiries are usually referred to the appropriate operating divisions of the Laboratories); provides document services; provides speakers. Boulder Laboratories provides consulting and advisory services without charge or on contract basis to other Government agencies, the scientific community, and industry.

Properties of Electrolyte Solutions Data Center

0665 National Bureau of Standards
Washington, D.C. 20234

Location:

Gaithersburg, Md.
Tel: (301) 921-2700

AREAS OF INTEREST: Thermodynamics and transport properties of important electrolyte solutions, both aqueous and nonaqueous, including standard electromotive forces, electrode potentials, activity coefficients, electrolytic conductivities, transference numbers, and ionic mobilities.

HOLDINGS: Data.

PUBLICATIONS: Reports on results of evaluation of 5-6 systems a year.

INFORMATION SERVICES: Answers inquiries; provides reference services. Services are available to anyone in the electrolytic, corrosion, battery, and electrowinning industries, and research workers studying reactions in aqueous and nonaqueous solutions.

X- Ray Attenuation Coefficient Information Center

0666 Center for Radiation Research
National Bureau of Standards

Washington, D.C. 20234
Tel: (301) 921-2685

AREAS OF INTEREST: Attenuation coefficients for high energy photon (X-ray, gamma-ray) interaction with matter, including Compton and Rayleigh scattering, atomic photo-effect, and electron-positron pair production.

HOLDINGS: 2,000 reprints of direct or peripheral relevance to photon attenuation or cross sections; books, periodicals, reports.

PUBLICATIONS: Reports, state-of-the-art reviews.

INFORMATION SERVICES: Answers inquiries by letter or phone; provides consulting services to scientific, medical, and engineering personnel with professional interest in the field.

National Technical Information Service (NTIS)

0667 5285 Port Royal Rd.
Springfield, Va. 22151
Tel: (703) 321-8500

The National Technical Information Service was formerly known as the Clearinghouse for Federal Scientific and Technical Information.

AREAS OF INTEREST: Government-generated science and technology in defense, space, atomic energy, and other national programs.

HOLDINGS: About 600,000 unclassified/unlimited Government-sponsored technical reports, including unclassified documents produced by Department of Defense research and development laboratories and contractors. The collection grows at the rate of approximately 40,000 reports per year.

PUBLICATIONS: (1) *U.S. Government Research and Development Reports* (*USGRDR*) and its companion, *U.S. Government Research and Development Reports Index* (*USGRDR-I*), issued on the 10th and 25th of each month, containing abstracts and indexes to Government reports offered for sale by NTIS; (2) *Fast Announcement Service* (*FAS*), specially prepared announcements that highlight about 4,000 reports annually, calling attention to timely products or services and slanted towards specific audiences in advance of, or simultaneously with, other releases, and covering 57 subject areas of high industrial interest; (3) *Clearinghouse Announcements in Science and Technology*, a new abstract service designed for quick review of the current scientific and technical reports available from NTIS and providing a simple method for the engineer, the scientist, and the businessman to scan the flow of new technical information. There are 35 categories encompassing 350 subcategories. *Clearinghouse Announcements in Science and Technology* differs from the *Fast Announcement Service* in that it is a complete coverage of all the information received by NTIS during any 2-week period rather than being selective.

INFORMATION SERVICES: NTIS provides scientists, engineers, businessmen, industrial and academic organizations, the defense community, and the general public with unclassified information resulting from Government-sponsored research and development. Its services include: *Announcement and Abstracting Services:* The two NTIS publications, *Fast Announcement Service* and *Clearinghouse Announcements in Science and Technology* described above, are the primary means of announcing Government-generated research and development reports. *Sale of Reports:* Items listed in *U.S. Government Research and Development Reports* are made available for the cost of reproduction and handling in one of two forms--as printed pages or as microfiche (4x6-inch microphotography sheets, covering up to 70 pages per sheet). A single price of $3.00 per copy is charged for all documents in paper copy. The price of a microfiche copy is 65 cents per document. These prices apply to any document available from NTIS including those previously announced before the price change became effective, with a few exceptions involving dual availability from the Government Printing Office, or when multiple copies are desired. *Inquiry Services:* NTIS also provides reference and inquiry services to Government agencies and the general public, including inquiries on document availability and searches for documents in specific areas of interest.

Patent Office

Office of Information Services

0668 U.S. Patent Office
14th and E Sts. NW.
Washington, D.C. 20231

Location:

Crystal City Plaza
Building 3, Room 1D01
2110 Jefferson Davis Highway
Arlington, Va.
Tel: (703) 557-3428

AREAS OF INTEREST: Patents and trademarks.

PUBLICATIONS: *Official Gazette of the United States Patent Office* (weekly; Decisions leaflet and Trademark Section sold separately); *Patent Laws*; *Rules of Practice in Patent Cases*; *Trademark Rules of Practice of the Patent Office with Forms and Statutes*; *Manual of Patent Examining Procedure*; *Manual of Classification of Patents*; *Index of Patents* and *Index of Trademarks* (both annual); *Directory of Registered Patent Attorneys and Agents*; *Roster of Attorneys and Agents Registered to Practice Before the U.S. Patent Office*; *Patents and Inventions*, an information aid to inventors; *General Information Concerning Patents* and *General Information Concerning Trademarks*; information circulars and pamphlets on patents and trademarks.

INFORMATION SERVICES: Answers general information inquiries, including those concerning the use of Patent Office research facilities; makes referrals; furnishes lists of registered patent attorneys and agents in a specified area; prints and sells to the public specifications and accompanying drawings of all patents granted and copies of all trademark registrations. The Patent Office has no jurisdiction over questions of infringement and the enforcement of patents, nor over matters relating to the use of patents. It does not give advice concerning the propriety of filing and application for a patent or trademark, nor does it respond to inquiries as to whether an alleged invention has been patented. It does not give legal advice as to the meaning of the patent law or act as a counselor for individuals.

Office of Research and Development

0669 U.S. Patent Office
Washington, D.C. 20231

Location:

Crystal City Plaza
Building 2, Room 6DO7
2110 Jefferson Davis Highway
Arlington, Va.
Tel: (703) 557-3761
(703) 557-3772 (Library)

AREAS OF INTEREST: Mechanical information retrieval systems for conducting novelty searches of the prior art; automata theory; pattern recognition; cybernetics; artificial intelligence.

HOLDINGS: Books, journals, reports.

PUBLICATIONS: *Patent Office Research and Development Reports.*

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference to literature collection.

Scientific Library

0670 U.S. Patent Office
14th and E Sts. NW.
Washington, D.C. 20231

Location:

Crystal City Plaza
Building 34
2110 Jefferson Davis Highway
Arlington, Va.
Tel: (703) 557-2955

AREAS OF INTEREST: Patents.

HOLDINGS: 200,000 books, pamphlets, and bound periodicals; 11 million U.S. and foreign patents (most complete patent collection in the United States); indexes to patents, arranged by subject classification, number, and patentee; journals, indexes, specifications, and drawings on foreign patents since 1617.

INFORMATION SERVICES: Answers inquiries; makes referrals; makes interlibrary loans to other Government agencies; provides duplication services; permits onsite reference.

Search Room and Record Room

0671 U.S. Patent Office
14th and E Sts. NW.
Washington, D.C. 20231

Location:

Crystal City Plaza
2021 Jefferson Davis Highway
Arlington, Va.
Tel: (703) 521-9655 (Search Room)
(703) 557-2977 (Record Room)

AREAS OF INTEREST: U.S. patents.

HOLDINGS: U.S. patents granted since 1836, arranged according to the Patent Office classification; a bound set of U.S. patents arranged in numerical order; a complete set of the *Official Gazette*.

INFORMATION SERVICES: The public may search and examine patents in the Search Room. In the adjoining Record Room, records and files of issued patents and other public records may be inspected, and applicants and their attorneys or agents may examine their own cases.

Trademark Search Room

0672 Trademark Examining Operation
U.S. Patent Office
Washington, D.C. 20231

Location:

Crystal City Plaza
Building 2
2110 Jefferson Davis Highway
Arlington, Va.
Tel: (703) 557-3277

AREAS OF INTEREST: Registered trademarks.

HOLDINGS: Register of all trademarks (over 800,000) registered under Federal statutes.

INFORMATION SERVICES: Answers inquiries; identifies commercial origin of goods sold or services rendered under known marks; provides duplication services. The collection is accessible for onsite use; Trademark Search Room employees will show visitors how to search, but will make searches for Government agencies only.

COMMITTEE FOR ENVIRONMENTAL INFORMATION

0673 438 North Skinker Blvd.
St. Louis, Mo. 63130
Tel: (314) 863-6560

AREAS OF INTEREST: Air and water pollution; pesticides; biological effects of radiation; nuclear power reactors; nuclear testing; nuclear war and civil defense; peaceful uses of nuclear explosives; chemical and biological warfare; supersonic transport; noise; weather modification.

HOLDINGS: 1,000 books and hearings; 100 periodicals; 2,000 reports and surveys, including environmental monitoring data.

PUBLICATIONS: *Environment* (10 issues a year).

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services; permits onsite reference.

COMMONWEALTH EDISON CO. LIBRARY

0674 One First National Plaza
P.O. Box 767
Chicago, Ill. 60690
Tel: (312) 726-1200

AREAS OF INTEREST: Electricity; public utilities; management; engineering; industrial relations; atomic power.

HOLDINGS: 14,000 books; 360 journal titles.

PUBLICATIONS: Bulletin.

INFORMATION SERVICES: Provides reference services; permits onsite reference; makes interlibrary loans.

COMMUNICATIONS SATELLITE CORP.

Central Library

0675 Communications Satellite Corp.
950 L'Enfant Plaza South, SW.
Washington, D.C. 20024
Tel: (202) 554-6658

AREAS OF INTEREST: Electronics; engineering; telecommunications; business.

HOLDINGS: 4,000 books; 325 periodical titles; 600 reports.

PUBLICATIONS: Public information brochures, annual report.

INFORMATION SERVICES: Makes interlibrary loans.

Comsat Laboratories

Technical Library

0676 Comsat Laboratories
P.O. Box 115
Clarksburg, Md. 20734

Location:

Linthicum Rd.
Clarksburg, Md.
Tel: (301) 428-4512, 428-4513, or 428-4514

AREAS OF INTEREST: Engineering; electronics; communications; mathematics; physics.

HOLDINGS: 4,500 books; 375 periodical titles; 3,000 reports.

PUBLICATIONS: Reports, acquisitions lists, weekly current contents list, specifications, reprints of articles by Comsat Laboratories personnel, information brochures.

INFORMATION SERVICES: Answers inquiries; provides reference and duplication services; makes interlibrary loans; permits onsite use of collection. Services are primarily for the staff of Comsat Laboratories and secondarily for the staff of the Corporation at large, but are also available to others at the discretion of the librarian.

COMPOSITE CAN AND TUBE INSTITUTE

0677 1725 Eye St. NW.
Washington, D.C. 20006
Tel: (202) 337-7366

AREAS OF INTEREST: Testing procedures of composite cans and tubes; recommended industry standards for composite cans in general demand; industry statistics; plant safety; labor fringes and rates.

PUBLICATIONS: Statistical reports, standards and specifications, directory.

INFORMATION SERVICES: Answers inquiries; makes referrals to local manufacturers for those interested in specific products and their uses for specific purposes.

COMPOSITION INFORMATION SERVICES, INC.

0678 1605 North Cahuenga Blvd.
Los Angeles, Calif. 90028
Tel: (213) 466-5862

AREAS OF INTEREST: Typesetting production and technology, including the introduction and practical application of electronics and computers to photocomposition and other aspects of typographic information processing.

HOLDINGS: Data compilations, technical reports, market studies, standards and specifications, reviews, books, periodicals, abstracts and indexes, newsletters, reprints, publication lists, bibliographies, pamphlets, press releases, clippings.

PUBLICATIONS: *CIS Newsletter* (biweekly); *Glossary of Automated Typesetting* (revised periodically); *Survey of Computerized Typesetting* (annual); *Software Central; Installations & Applications.*

INFORMATION SERVICES: Answers brief technical inquiries; makes referrals; permits onsite use of collection.

COMSAT LABORATORIES

see Communications Satellite Corp.

CONE MILLS CORP.

Library and Technical Information Center

0679 Cone Mills Corp.
1106 Maple St.
Greensboro, N.C. 27405
Tel: (919) 273-6941 Ext. 534

AREAS OF INTEREST: Textile technology; organic chemistry; management; personnel; marketing.

HOLDINGS: 2,571 books; 1,274 volumes of periodicals; 400 abstracts; 1,200 reprints; 100 slides; 50 microforms of textile publications and patent information; standards and specifications, reviews, project records, bibliographies, preprints, reprints, clippings, newsletters.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and duplication services; permits onsite reference; lends materials.

CONFERENCE BOARD OF THE MATHEMATICAL SCIENCES

0680 834 Joseph Henry Bldg.
2100 Pennsylvania Ave. NW.
Washington, D.C. 20037
Tel: (202) 293-1170

AREAS OF INTEREST: The mathematical sciences, including mathematics, applied mathematics; mathematical logic, statistics and actuarial science, computer science, operations research, and management science; education, professional-society activities, and manpower in the mathematical sciences; mathematical aspects of other fields, including mathematical physics, mathematical biology, mathematical economics, mathematical psychology, and mathematical linguistics.

PUBLICATIONS: *Newsletter* (biannual); occasional books, surveys, and reports.

INFORMATION SERVICES: Answers inquiries.

CONGRESS OF THE UNITED STATES

House Committee on Armed Services

0681 Rayburn House Office Bldg., Room 2120
South Capitol St. and Independence Ave. SW.
Washington, D.C. 20515

Tel: (202) 225-4151

AREAS OF INTEREST: Common defense generally; the Department of Defense generally, including the Departments of the Army, Navy, and Air Force generally; ammunition depots; forts; arsenals; Army, Navy, and Air Force reservations and establishments; conservation, development, and use of naval petroleum and oil shale reserves; pay, promotion, retirement, and other benefits and privileges of members of the Armed Forces; scientific research and development in support of the armed services; selective service; size and composition of the Army, Navy, and Air Force; soliders' and sailors' homes; strategic and critical materials necessary for the common defense.

PUBLICATIONS: Special Committee reports, transcripts of hearings.

INFORMATION SERVICES: Answers inquiries.

House Committee on Interior and Insular Affairs

0682 Longworth House Office Bldg., Room 1324
New Jersey and Independence Aves. SE.
Washington, D.C. 20515
Tel: (202) 225-2761

AREAS OF INTEREST: Legislation relating to the use and conservation of water resources, including Federal reclamation and hydroelectric power programs, river-basin water resources planning programs, water resources research programs, and the saline water research program; public lands generally, including entry, easements, and grazing thereon; forest reserves and national parks; mineral resources of public lands; mining interests generally, including mining schools and experiment stations; surface and subsurface resources of Indian Reservation lands and of Federal lands in the U.S. territories.

PUBLICATIONS: Committee reports and transcripts of hearings.

INFORMATION SERVICES: Answers inquiries; provides published transcripts of hearings on request.

House Committee on Merchant Marine and Fisheries

0683 Longworth House Office Bldg., Room 1334
New Jersey and Independence Aves. SE.
Washington, D.C. 20515
Tel: (202) 225-4047

AREAS OF INTEREST: Merchant marine, including the regulation of common carriers by water (except matters subject to the jurisdiction of the Interstate Commerce Commission); lights and signals, lifesaving equipment, and fire protection on merchant marine vessels; registering and licensing of vessels and small boats; merchant marine officers and seamen; navigable waters and navigation; rules and international arrangements to prevent collisions at sea; Coast Guard, including lifesaving service, lighthouses, lightships, and ocean derelicts; Coast Guard and Federal and State Merchant Marine Academies; Coast and Geodetic Survey (within the Environmental Science Services Administration); Panama Canal; administration, sanitation, and government of the Canal Zone; interoceanic canals generally; oceanography, marine science, and engineering; control of pollution caused by discharges of vessels on inland waterways; control of oil pollution in domestic and international oceanic areas; fisheries and wildlife (research, restoration, refuges, conservation).

PUBLICATIONS: Reports and transcripts of hearings.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services.

House Committee on Public Works

0684 Rayburn House Office Bldg., Room 2165
South Capitol St. and Independence Ave.
SW.
Washington, D.C. 20515
Tel: (202) 225-4472

AREAS OF INTEREST: Economic development programs; public buildings and grounds; Appalachian Regional Development Act; Federal-aid highway program; small watersheds; water resources; water pollution control and abatement; sewage treatment facilities; rivers and harbors; beach erosion control; flood control; hydroelectric power; Tennessee Valley Authority; environmental quality.

INFORMATION SERVICES: Answers inquiries concerning activities in the Committee's areas of interest.

Joint Committee on Atomic Energy

0685 U.S. Capitol, Room H-403
Washington, D.C. 20510
Tel: (202) 225-6171

AREAS OF INTEREST: All matters pertaining to the military and civilian development, use, and control of atomic energy.

PUBLICATIONS: Hearing records and Committee reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides information and support in atomic energy matters to the Joint Committee members, Congress, and the public.

Joint Committee on Printing

Federal Electronics Printing Committee

0686 Joint Committee on Printing
U.S. Capitol, Room S-151
Washington, D.C. 20510
Tel: (202) 225-5241

This Committee evaluates all new printing processes and related equipment and makes recommendations to the Joint Committee on Printing for its formal evaluation and determination. It maintains contact with the Public Printer and other heads of departments and agencies participating in this Federal program.

AREAS OF INTEREST: Coordination and standardization within the Federal Government of automation in printing through the use of computers and automatic typesetting or phototypesetting machines; exploitation of byproducts of electronic composition, such as automatic indexing of publications; examination of copy preparation processes to achieve optimum balance in the production of printing.

PUBLICATIONS: Reports on Federal high-speed photocomposition programs and proposals.

INFORMATION SERVICES: Answers inquiries.

Senate Committee on Aeronautical and Space Sciences

0687 Old Senate Office Bldg., Room 231
Constitution Ave. and 1st St. NE.
Washington, D.C. 20510
Tel: (202) 225-6477

AREAS OF INTEREST: Aeronautical and space activities as carried out by agencies of the United States, particularly by the National Aeronautics and Space Administration.

HOLDINGS: Reference collection.

PUBLICATIONS: Reports and transcripts of hearings.

INFORMATION SERVICES: Answers inquiries concerning aeronautical and space activities in the Committee's areas of interest; permits onsite use of reference collection.

Senate Committee on Commerce

0688 New Senate Office Bldg., Room 5202
Constitution Ave. and 1st St. NE.
Washington, D.C. 20510
Tel: (202) 225-5115

AREAS OF INTEREST: Interstate commerce generally, including consumer protection; foreign commerce generally; transportation generally; maritime matters; interoceanic canals; domestic surface transportation, including pipelines and highway safety; communications, including national and international telecommunications and the use of communications satellites; Federal power matters; civil aeronautics; fisheries and wildlife; marine sciences; weather services and modification, including the use of weather satellites.

PUBLICATIONS: Reports, transcripts of hearings.

INFORMATION SERVICES: Answers inquiries.

Senate Committee on Interior and Insular Affairs

0689 New Senate Office Bldg., Room 3106
Constitution Ave. and 1st St. NE.
Washington, D.C. 20510
Tel: (202) 225-4971

AREAS OF INTEREST: Nationwide water resource and hydroelectric power development; desalination; river basin and regional water research and planning programs; national parks and outdoor recreation; coordination of State outdoor recreation activities; irrigation and water quality control; public lands, including the Outer Continental Shelf; mines and mining; American Indians; offshore dependent areas; environmental studies; national land use policies.

PUBLICATIONS: Reports, transcripts of hearings, special studies.

INFORMATION SERVICES: Answers inquiries; provides reference services.

Senate Committee on Public Works

0690 New Senate Office Bldg., Room 4204
Constitution Ave. and 1st St. NE.
Washington, D.C. 20510
Tel: (202) 225-6176

AREAS OF INTEREST: Public works legislation relating to water resources conservation and development, rivers and harbors, beach erosion, hydroelectric power, pollution abatement in air and water, highway construction, public buildings, and regional economic development.

PUBLICATIONS: Reports, transcripts of Committee hearings.

INFORMATION SERVICES: Answers inquiries; makes referrals. The Committee has available for loan or sale two 16mm films: Senate Film Report No. 1, *Troubled Waters* (on the problem of water pollution in the United States) and Senate Film Report No. 2, *Ill Winds on a Sunny Day* (on the severity of the air pollution problem). Inquiries regarding these films should be addressed to the Committee.

CONNECTICUT AGRICULTURAL EXPERIMENT STATION

0691 P.O. Box 1106
New Haven, Conn. 06504

Location:

123 Huntington St.
New Haven, Conn.
Tel: (203) 787-7421

AREAS OF INTEREST: Plant sciences; plant pathology; ecology; entomology; tobacco; soils; climatology; analytical chemistry; biochemistry; genetics; biometrics.

HOLDINGS: Books, journals, reports.

PUBLICATIONS: *Frontiers of Plant Science* (May and November); research bulletins (irregular).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides information on research in the Station's fields of competence to Connecticut citizens, business, and industry.

CONNECTICUT DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES

0692 State Office Bldg.
Hartford, Conn. 06115
Tel: (203) 527-6341

AREAS OF INTEREST: Agriculture and natural resources of Connecticut; dairy science; livestock; farms; soils; parks; forests and forestry; fisheries, fish breeding, fish hatcheries, and fishing; game; wildlife management; law enforcement; water resources; water pollution control; flood control; erosion; dams; shellfish; oysters; geology; natural history; maps; veterinary public health; marketing; boating regulation; conservation education; open space land acquisition.

PUBLICATIONS: *Connecticut Wildlife Conservation Bulletin* (bimonthly); pamphlets.

INFORMATION SERVICES: Answers brief inquiries; provides detailed information in the area of conservation education.

Water Resources Commission

0693 Connecticut Department of Agriculture and Natural Resources
State Office Bldg.
Hartford, Conn. 06115
Tel: (203) 527-6341

AREAS OF INTEREST: Water pollution control, flood control, shore erosion control, dredging, supervision of dams, water resources inventory, water quality, ground water, and wells in Connecticut.

HOLDINGS: Books, reports, journals; collection of M.A. and Ph.D. theses and project records of grant research conducted at Yale and Wesleyan universities.

PUBLICATIONS: A *Connecticut Water Resources Bulletin* series is prepared for the Commission by the U.S. Geological Survey. Subjects covered include water resources inventory of the State, water quality control, ground-water levels, records and logs of selected wells and test borings, and hydrographic surveys. The 14 bulletins of the series are available free from the Commission.

INFORMATION SERVICES: Answers inquiries; provides advice to industry and municipalities of the State; permits onsite reference.

CONNECTICUT DEPARTMENT OF COMMUNITY AFFAIRS

Public Information Section

0694 Connecticut Department of Community Affairs
1179 Main St.
Hartford, Conn. 06101
Tel: (203) 566-4133

AREAS OF INTEREST: Community development; urban renewal; urban beautification; neighborhood facilities; development and operation of child day care centers for disadvantaged children of working parents; harbor improvement projects; housing;

relocation assistance programs; social services and rehabilitation in public housing projects; antipoverty programs; communication; vermin control.

PUBLICATIONS: Newsletter, reports on Department activities and on special programs and research, pamphlets and brochures describing and explaining programs.

INFORMATION SERVICES: This Section directs the promotional, public relations, and informational activities of the Department.

CONNECTICUT DEPARTMENT OF FINANCE AND CONTROL

Office of State Planning

0695 State Capitol
Capitol Ave.
Hartford, Conn. 06115
Tel: (203) 566-4974

AREAS OF INTEREST: Population characteristics and projections; economic growth; land characteristics and urban development; public facilities; transportation; governmental finance; natural resources and outdoor recreation for Connecticut; planning regions and municipalities; State Government plans and programs.

HOLDINGS: 200 books; 50 periodical titles; 1,000 reports.

PUBLICATIONS: Periodicals, reports, procedural manuals.

INFORMATION SERVICES: Answers inquiries; provides reference services; permits onsite use of collection.

CONNECTICUT DEPARTMENT OF HEALTH

Environmental Health Services Division

0696 Connecticut Department of Health
79 Elm St.
Hartford, Conn. 06115
Tel: (203) 527-6341 Ext. 811

AREAS OF INTEREST: Source, treatment, and quality of public water supplies; fluoridation of water supplies; swimming pools and water recreational facilities; water pollution; municipal wastewater treatment; radioactive waste disposal; mosquito control; drainage; pesticides in water; detergents in water; wells; subsurface sewage disposal; shellfish sanitation; air pollution control; solid waste disposal; vermin control.

HOLDINGS: The Division uses the Department of Health Library.

PUBLICATIONS: *Analysis of Public Water Supplies--5-year Average*; reprints of articles published in the Department of Health monthly bulletin; pamphlets.

INFORMATION SERVICES: Answers inquiries; permits onsite reference; provides analysis of water samples.

CONNECTICUT DEPARTMENT OF TRANSPORTATION

Bureau of Aeronautics

0697 Connecticut Department of Transportation
Hartford-Brainard Airport
Hartford, Conn. 06114
Tel: (203) 566-3860

AREAS OF INTEREST: Aviation; social sciences as they apply to aviation.

HOLDINGS: 1,000 books; 50 periodical titles; 1,000 reports.

PUBLICATIONS: Airport directory (biannual); newsletter (bimonthly); statistics (quarterly); laws, regulations, reports.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services; permits onsite use of collection.

CONNECTICUT OFFICE OF COORDINATOR OF ATOMIC DEVELOPMENT ACTIVITIES

0698 50 Old Hill Rd.
Westport, Conn. 06880
Tel: (203) 227-7789

This Office coordinates atomic energy activities among the State agencies and assists in planning programs and securing appropriate legislation in the interest of atomic energy developments in Connecticut.

AREAS OF INTEREST: Development and control of atomic energy activities in Connecticut.

HOLDINGS: Miscellaneous reports.

INFORMATION SERVICES: Answers inquiries of State and Federal agencies, educational institutions, and industrial organizations; provides consulting services of a public nature.

CONRAC CORP. TECHNICAL LIBRARY

0699 1600 South Mountain Ave.
Duarte, Calif. 91010
Tel: (213) 359-9141 Ext. 392

AREAS OF INTEREST: Avionic and aerospace instruments and control systems; professional, educational, and industrial television monitors; telephone test equipment; data displays; numerically controlled processing systems; microphones; timing devices and instrument motors; scientific instruments; aircraft control systems; machine tools.

HOLDINGS: 2,500 books; 5,000 reports; 200 unbound and 1,500 bound periodicals; microfiche.

PUBLICATIONS: Accessions lists, bibliographies.

INFORMATION SERVICES: Answers inquiries; makes referrals; makes interlibrary loans.

THE CONSERVATION FOUNDATION

0700 1717 Massachusetts Ave. NW.
Washington, D.C. 20036
Tel: (202) 265-8882

The Foundation conducts research, education, and information programs to develop knowledge, improve techniques, and stimulate public and private decisionmaking and action to improve the quality of the environment. It carries out environmental studies and demonstration planning programs, and offers a variety of conservation services at home and abroad.

AREAS OF INTEREST: Conservation of natural resources; promotion of knowledge of the earth's resources and effective public and private action to enhance the environment.

HOLDINGS: 5,000 books; reports, periodicals, research data.

PUBLICATIONS: *CF Letter* (monthly report on environmental issues); other reports, pamphlets, books, reprints.

INFORMATION SERVICES: Permits onsite reference; sponsors environmental and policy studies, and conferences.

CONSOLIDATED EDISON CO. OF NEW YORK LIBRARY

0701 4 Irving Pl.
New York, N.Y. 10003
Tel: (212) 460-4227 or 460-4228

AREAS OF INTEREST: Electrical engineering; gas engineering; nuclear power; public utility economics.

HOLDINGS: 40,000 books; 260 periodicals.

PUBLICATIONS: Library bulletin (monthly).

INFORMATION SERVICES: Provides reference services; makes interlibrary loans.

CONSOLIDATION COAL CO.

Research Division

Information Services

0702 Research Division
Consolidation Coal Co.
Library, Pa. 15129
Tel: (412) 281-8700 Ext. 285

AREAS OF INTEREST: Fuel technology, particularly coal, coal chemistry, and marketing of coal.

HOLDINGS: 8,000 books; 250 journals; 400 translations; reports, patents.

PUBLICATIONS: Abstracts bulletin, reports, reviews, translations (most of these are for Company use only).

INFORMATION SERVICES: Answers brief inquiries; makes interlibrary loans; permits onsite use of literature collection.

CONSTRUCTION INDUSTRY MANUFACTURERS ASSOCIATION (CIMA)

0703 Marine Plaza, Suite 1700
111 East Wisconsin Ave.
Milwaukee, Wis. 53202
Tel: (414) 272-0943

AREAS OF INTEREST: Construction machinery and equipment, including safety and performance standards and safe operating procedures.

HOLDINGS: Technical bulletins.

PUBLICATIONS: The following technical bulletins: *Functional Design, Job Applications and Job Analysis of Power Cranes and Shovels*; *Operating Cost Guide*; *Proper Sizing of Excavators and Hauling Equipment*; *Power Cranes, Shovels, Draglines Attachments, Traction, Operation*; *Power Crane Application in Industrial Plants*; an operator manual, *125 Ways to Better Power Shovel-Crane Operation*; hand signal cards

(3x5); *Capacity Standards* and *Nomenclature* for shovel dippers, backhoe dippers, clamshell buckets, and dragline buckets; *60 Rules for Safety* for safe operation of power shovels and excavators; *Operators Safety Manual for Crawler Tractors*; and *Operators Safety Manual for Front-End Loader*.

INFORMATION SERVICES: Answers inquiries; makes referrals.

CONSTRUCTION SPECIFICATIONS INSTITUTE, INC.

0704 1717 Massachusetts Ave. NW., Suite 604
Washington, D.C. 20036
Tel: (202) 483-6644

The Institute's objective is to improve and implement the science of communication in construction technology through service, education, and research.

AREAS OF INTEREST: Construction materials and equipment; specification writing; automated specification writing; automation related to construction.

HOLDINGS: Specifications (excluding home building).

PUBLICATIONS: *Construction Specifier* (monthly); technical publications (monthly). A publications list of technical studies is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, reference, and duplication services.

CONSULTING ENGINEERS ASSOCIATION OF CALIFORNIA

0705 1330 Bayshore Highway
Burlingame, Calif. 94010
Tel: (415) 344-5782

AREAS OF INTEREST: Consulting engineering.

PUBLICATIONS: *Access* (quarterly); newsletters, standards and specifications, directory.

INFORMATION SERVICES: Provides consulting services.

CONSULTING ENGINEERS COUNCIL OF THE UNITED STATES

0706 1155 15th St. NW.
Washington, D.C. 20005
Tel: (202) 296-1780

AREAS OF INTEREST: All branches of engineering, including civil, structural, mechanical, electrical, environmental, industrial, agricultural, and management; architecture, including landscape architecture; project feasibility and economic studies, reports, planning, design, and construction management services for buildings, industrial plants, transportation systems, housing projects, site development, water supply, sanitation, solid waste disposal, air pollution control, water pollution control, power generation and transmission, irrigation, flood control, waterfront development, air and marine navigation, bridges, tunnels, etc.; valuation; rate studies; product processing, handling, and storage; structural evaluations.

HOLDINGS: 200 books; 2,500 journals; 1,000 reports; brochures.

PUBLICATIONS: *Newsletter* (monthly); *Directory of Membership*; *International Engineering Directory*; *Manual of Principles and Performance for Consulting Engineers*; reports, bulletins, standard forms of agreement.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and reference services; provides information to students and others interested in career opportunities in the field; conducts seminars and conferences.

CONSUMERS' RESEARCH, INC.

0707 Washington, N.J. 07882
Tel: (201) 689-3300

AREAS OF INTEREST: Engineering; physics; chemistry; consumer safeguards against electric shock and other hazards; nutrition; chemical and biological food contaminants and additives; discount house operations; misleading advertising; deceptive pricing and packaging; manufacturers' guarantees; economics of consumption.

HOLDINGS: 7,500 books; 100 periodical titles; 3,500 technical reports; 150 test methods of various products; standards and specifications, photos, and color slides.

PUBLICATIONS: *Consumer Bulletin* (monthly and annual); reprints.

INFORMATION SERVICES: Answers inquiries; provides information on technical and scientific source material to Government agencies, academic and other researchers, authors, and others; provides literature-searching services at cost, when time permits; makes direct and interlibrary loans; permits onsite reference by approved scientific, academic, and Government researchers.

CONSUMERS UNION OF THE UNITED STATES, INC.

0708 256 Washington St.
Mount Vernon, N.Y. 10553
Tel: (914) 664-6400

AREAS OF INTEREST: Automobiles; appliances; chemistry; electronics; food; textiles; testing.

HOLDINGS: 4,000 books; 800 journals; data.

PUBLICATIONS: *Consumer Reports* (monthly, including December *Buying Guide* issue); other reports.

INFORMATION SERVICES: Makes limited interlibrary loans; permits onsite reference by request.

CONTRACTING PLASTERERS ASSOCIATION OF SOUTHERN CALIFORNIA

0709 2801 West Temple St.
Los Angeles, Calif. 90026
Tel: (213) 386-5490

AREAS OF INTEREST: Plaster; lathing; plastering.

HOLDINGS: Data.

PUBLICATIONS: Bulletin (bimonthly); standards and specifications.

INFORMATION SERVICES: Provides consulting services to nonmembers in Los Angeles and Orange Counties for fee.

CONVAIR DIVISION

see General Dynamics Corp.

CONVEYOR EQUIPMENT MANUFACTURERS' ASSOCIATION

0710 1000 Vermont Ave. NW., Suite 504
Washington, D.C. 20005
Tel: (202) 628-4634

AREAS OF INTEREST: Materials handling equipment; conveyor systems.

HOLDINGS: Books, journals, reports, data.

PUBLICATIONS: *CEMA Bulletin* (monthly); *Belt Conveyors for Bulk Materials*; *Conveyor Terms and Definitions*; *Keys, Keyseats & Keyways*; *Screw Conveyors*; *Roller Conveyors--Non-Powered*; *Belt Conveyors*; *Belt Driven Live Roller Conveyors*; *Chain Driven Live Roller Conveyors*; *Troughing & Return Idlers*; *CEMA Freight Classification Guide*; proceedings, standards and specifications, bibliography, motion pictures. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and consulting services.

COOK PAINT AND VARNISH CO.

Central Research Laboratory

0711 Cook Paint and Varnish Co.
P.O. Box 389
Kansas City, Mo. 64141

Location:

1412 Knox St.
North Kansas City, Mo.
Tel: (816) 471-4800, Ext. 420

AREAS OF INTEREST: Analysis, evaluation, and performance of all types of chemical coatings, polyester resins, acrylic resins, polyisocyanate, and all other types of polymers normally associated with the coating industry.

HOLDINGS: 1,000 books; 50 periodicals; 1,000 reports.

INFORMATION SERVICES: Answers brief inquiries; provides consulting services for fee; provides reference, duplication, and literature-searching services, mainly for scientists and medical personnel.

COOLING TOWER INSTITUTE

0712 3003 Yale St., Suite 107
Houston, Tex. 77018
Tel: (713) 623-2644

AREAS OF INTEREST: Technology, design, performance, and maintenance of water cooling towers, including water treating practices, corrosion of tower hardware, prevention of decay of tower lumber, use of biocides, and influences of wood preservatives on the corrosion of metal components.

HOLDINGS: Pamphlets, graphs, tables, standards and specifications, reprints, reviews, press releases, psychrometers (an instrument for determining the temperature of adiabatic saturation of air by water).

PUBLICATIONS: *CTI News* (quarterly); *CTI Book of Performance Curves*; standards and specifications, research reports.

INFORMATION SERVICES: Provides consulting services for fee; tests cooling towers and analyzes the results; provides speakers for meetings.

COOPER UNION INFORMATION CENTER FOR AIR POLLUTION CONTROL

0713 51 Astor Pl.
New York, N.Y. 10003
Tel: (212) 254-6300 Ext. 858

AREAS OF INTEREST: Air pollution control.

HOLDINGS: Small collection of books, periodicals, and reports; tape recordings of workshops and seminars.

INFORMATION SERVICES: Answers inquiries; provides consulting and duplication services; makes referrals; permits onsite use of collection; conducts workshops and seminars.

COOPERATIVE INFORMATION CENTER FOR HOSPITAL MANAGEMENT STUDIES

see University of Michigan

COPPER DATA CENTER

see Battelle Memorial Institute

COPPER DEVELOPMENT ASSOCIATION, INC.

0714 Chrysler Bldg.
405 Lexington Ave.
New York, N.Y. 10017
Tel: (212) 867-6500

AREAS OF INTEREST: Properties and applications of copper, brass, and bronze; copper and copper alloy technology; standards for copper and its alloys; copper production, consumption, and marketing information and statistics.

PUBLICATIONS: Data sheets, technical reports, handbooks. Publication lists are available.

INFORMATION SERVICES: Answers inquiries; disseminates reports and data sheets.

The Association sponsors a Copper Data Center, which is operated by Battelle Memorial Institute.

CORNELL AERONAUTICAL LABORATORY, INC. LIBRARY

0715 Box 235
Buffalo, N.Y. 14221

Location:

4455 Genesee St.
Buffalo, N.Y.
Tel: (716) 632-7500

AREAS OF INTEREST: Computers; transportation; automotive research; meteorology; electronics; radar; aerospace vehicles; weapons research; operations research; guided missiles; reentry vehicles; wind tunnels; shock tubes; aerodynamics; applied mechanics; aircraft; helicopters; economic planning; human engineering; water resources research.

HOLDINGS: 13,500 books; 180,000 technical reports; subscriptions to 603 journals.

PUBLICATIONS: *Research Trends* (quarterly).

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans.

CORNELL DUBILIER ELECTRONICS DIVISION TECHNICAL LIBRARY

see Federal Pacific Electric Co.

CORNELL UNIVERSITY

Agricultural Experiment Station

0716 New York State College of Agriculture
Cornell University
Ithaca, N.Y. 14850
Tel: (607) 275-5429

AREAS OF INTEREST: General agriculture; social sciences; biology; earth sciences; home economics; bacteriology; biochemistry; botany; entomology; vertebrate zoology.

HOLDINGS: 275,000 volumes.

PUBLICATIONS: *New York Food and Life Sciences* (quarterly); data handbook, reports, proceedings, bulletins, memoirs.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite use of literature collection.

Arecibo Observatory

0717 Box 995
Arecibo, Puerto Rico 00612
Tel: (809) 878-2612

AREAS OF INTEREST: Ionospheric physics; radar astronomy; radio astronomy; construction of giant radar antennas, transmitters, and receivers.

HOLDINGS: 1,265 books; 7,000 photos; 200 slides; 4,020 technical reports; 5,000 periodicals; construction project records, maps, charts, graphs, tables, magnetic tapes, abstracts, reprints, newsletters, data.

PUBLICATIONS: Technical reports, newsletters, press releases.

INFORMATION SERVICES: Provides brief answers to technical inquiries; answers general inquiries about the construction and operation of the Observatory; permits onsite use of information and data collection by qualified users approved in advance.

Cornell University Libraries

Engineering Library

0718 Carpenter Hall
Cornell University
Ithaca, N.Y. 14850
Tel: (607) 275-4318

AREAS OF INTEREST: Aerospace, chemical, civil, electrical, industrial, mechanical, metallurgical, and nuclear engineering; materials of engineering; metallurgy; theoretical and applied mechanics; applied mathematics; applied physics; industrial chemistry; space science and technology; water resources development.

HOLDINGS: 126,000 volumes; 70 titles of abstracts; over 2,000 serial titles; numerous reports from governmental and industrial agencies; 350 bibliographies; a complete file of British patents; depository set of the U.S. Atomic Energy Commission reports; reports of the Geodex Soil Mechanics Information Service and the Geodex Structural Information Service; Cornell Ph.D. and Masters theses in engineering; 100 microfilms.

PUBLICATIONS: *Monthly Newsletter and New Acquisitions List*; *Engineering Library Handbook*; *Periodicals List*.

INFORMATION SERVICES: Provides reference and bibliographic services; provides duplication services for fee; makes interlibrary loans.

Facilities include a microfilm reader, microcard reader, and microfiche reader.

John M. Olin Library

0719 Cornell University
Ithaca, N.Y. 14850
Tel: (607) 275-4144

AREAS OF INTEREST: All areas of geology.

HOLDINGS: 10,000 titles, including all major journals; numerous Government publications; all foreign and domestic geological survey publications; U.S. Geological Survey maps (depository collection); U.S. state geologic maps; foreign geologic maps.

INFORMATION SERVICES: Provides reference and bibliographic services; provides duplication services for fee; makes interlibrary loans.

Mathematics Library

0720 White Hall
Cornell University
Ithaca, N.Y. 14850
Tel: (607) 275-5076

AREAS OF INTEREST: Mathematics (pure and applied) and closely related subjects; mathematical logic; mathematical physics; mathematical statistics.

HOLDINGS: 15,000 books, journals (over 200 titles), and reports; Cornell Ph.D. theses in mathematics.

PUBLICATIONS: Acquisitions list (monthly).

INFORMATION SERVICES: Provides reference services; makes interlibrary loans.

Physical Sciences Library

0721 Clark Hall
Cornell University
Ithaca, N.Y. 14850
Tel: (607) 275-4016 or 275-5288

AREAS OF INTEREST: Analytical, organic, inorganic, and physical chemistry; high polymer chemistry; applied, experimental, nuclear, and theoretical physics; astronomy; astrophysics; biochemistry; biophysics; crystallography; electron microscopy; molecular biology and atomic energy; optics and spectroscopy; quantum theory.

HOLDINGS: 50,000 volumes; 30 titles of abstracts; 1,000 serial titles; numerous reports from governmental and industrial agencies; 200 bibliographies;

12 drawers of X-ray Powder Diffraction Data Cards of the American Society for Testing and Materials; Nuclear Data Sheets and 5 drawers of Nuclear Theory Index Cards of the National Research Council; spectral indexes of the Sadtler Research Laboratories and the American Petroleum Institute; Cornell Ph.D. theses in physics, chemistry, and astronomy; 45 film loops and 2 film loop projectors; 35 microfilms; 2 microfilm readers.

PUBLICATIONS: *Monthly Newsletter and New Acquisitions List*; *Serials List* (annual).

INFORMATION SERVICES: Provides reference and bibliographic services; provides duplication services for fee; makes interlibrary loans.

Water Resources and Marine Sciences Center

0722 Cornell University
Ithaca, N.Y. 14850
Tel: (607) 275-2385

AREAS OF INTEREST: Water resources; rural water supplies; freezing techniques of desalination; molecular studies of water; river basins; hydrology; water law; algae; aquatic weeds; water resources economics; water resources planning; water resources systems analysis; sanitary engineering.

HOLDINGS: An extensive water resources library and a large, special collection of published materials in the Cornell Engineering Library. Included are all Federal and most State publications on water resources, United Nations publications, law review articles, books, technical reports, and over 200 journals containing articles on water resources.

PUBLICATIONS: Technical reports, directories of consultants on water resources, annual report, graduate student theses.

INFORMATION SERVICES: Answers technical inquiries for professionals in the field; provides consulting services free or for fee, as negotiated.

THE CORNING MUSEUM OF GLASS

0723 Corning Glass Center
Corning, N.Y. 14830
Tel: (607) 962-0142

AREAS OF INTEREST: Every aspect of the art and history of glass; archaeological research; the scientific examination of glass objects and of the raw materials which, in the past, were used in their manufacture; conservation.

HOLDINGS: An extensive collection of over 11,000 glass objects and fragments from every period and country; a comprehensive library on the art and history of glass comprised of 10,000 cataloged volumes, 2,050 bound periodicals (275 titles received regularly), and 500 prime source documents; a picture collection of 400 prints, 8,000 slides, 9,000 photographs, and 8,000 negatives depicting glass objects and their use through history. The Museum serves as an international depository for information pertaining to the history of glass and related subjects.

PUBLICATIONS: *Journal of Glass Studies* (annual); catalogs, monographs.

INFORMATION SERVICES: Answers inquiries from serious scholars; permits onsite reference.

COTTON FINISHING AND UTILIZATION RESEARCH LABORATORY

0724 Texas Women's University
P.O. Box 3896
Denton, Tex. 76204
Tel: (817) 387-2415

AREAS OF INTEREST: Cotton fabrics.

HOLDINGS: Books, journals, reports, films, photos, data.

PUBLICATIONS: Journals, reports, proceedings, National Cotton Council publications.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services; permits onsite reference.

Affiliated with Texas Women's University, the Laboratory is sponsored by the Cotton Research Committee of Texas and the National Cotton Council.

COTTON RESEARCH COMMITTEE OF TEXAS

0725 300 Cotton Exchange Bldg.
Dallas, Tex. 75201
Tel: (214) 747-0198

AREAS OF INTEREST: Research relating to cotton lint, cottonseed, and all other products of the cotton plant, including the processes of breeding, chemical analyses, utilization, and processing as related to all phases of the Texas cotton industry.

HOLDINGS: Reports, data.

PUBLICATIONS: *Cotton Trade Journal* (weekly); technical reports, conference proceedings, news releases.

INFORMATION SERVICES: Makes referrals; provides consulting and reference services; distributes publications. Some materials are available for loan and onsite reference. A fee is charged for some services.

COUNCIL OF EDUCATIONAL FACILITY PLANNERS

0726 29 West Woodruff Ave.
Columbus, Ohio 43210
Tel: (614) 293-1521

AREAS OF INTEREST: Planning, design, maintenance, equipping, operation, and financing of educational facilities; training programs for educational planning specialists.

HOLDINGS: Books, periodicals, reports.

PUBLICATIONS: *Guide for Planning Educational Facilities* (1969); *Facility Technology: Catalyst for Learning* (1968); *Vocational-Technical Facilities for Secondary Schools: A Planning Guide* (1970); *Planning Community Junior College Facilities* (1967); *What Went Wrong?* (*Planning Errors to Avoid*) (1968); *Educational Facilities in Urban Settings* (1968); *Crisis in Planning* (1968); *CEFP Journal* (bimonthly professional magazine); *Selected References for Planning Higher Educational Facilities* (1968); *Abstract Series* (currently being revised).

INFORMATION SERVICES: Answers inquiries; disseminates research data and publications. Services are subject to the limitations of time and personnel available.

CRANBROOK INSTITUTE OF SCIENCE

0727 500 Lone Pine Rd.
Bloomfield Hills, Mich. 48013
Tel: (313) 644-1600

AREAS OF INTEREST: General science; mathematics; physics; astronomy; meteorology; mineralogy; geology; biology; botany; anthropology; flora and fauna of the Great Lakes region; culture and ethnology of the American Indian.

HOLDINGS: The Institute's museum offers permanent exhibits relating to the sky, the weather, minerals, rocks, earth's structure, earth's history, biological principles, mathematics, physics, and the American Indian. The Institute's library contains holdings on general science, biology, botany, astronomy, mineralogy, and anthropology, with particular emphasis on the flora and fauna of the Great Lakes region and the culture and ethnology of the American Indian. It is a depository for publications of the U.S. Departments of Agriculture, Commerce, State, and Interior, the U.S. Atomic Energy Commission, the Smithsonian Institution, and the National Aeronautics and Space Administration. A nature center, planetarium, and observatory are also maintained by the Institute.

PUBLICATIONS: Newsletter (monthly); books, manuals, reports, pamphlets. A list of Institute publications is available on request.

INFORMATION SERVICES: The museum is open to the public for a small admission fee and guide service is available. Public demonstrations in the planetarium and observatory are scheduled regularly. The library's holdings may be used onsite.

CRITICALITY DATA CENTER

see Union Carbide Corp.

CRYOGENIC DATA CENTER

see Commerce, Department of. National Bureau of Standards

CRYSTAL-DATA CENTER

see Commerce, Department of. National Bureau of Standards. Inorganic Materials Division

CUMBERLAND VALLEY ASSOCIATION

0728 P.O. Box 239
Nashville, Tenn. 37202
Tel: (615) 244-2050

AREAS OF INTEREST: Water resources development of the Cumberland Valley.

INFORMATION SERVICES: Answers inquiries.

DALLAS PUBLIC LIBRARY

Science and Industry Department

0729 Dallas Public Library
1954 Commerce St.
Dallas, Tex. 75201
Tel: (214) 748-9071

AREAS OF INTEREST: Pure science; engineering; transportation; manufacturing; food processing; building; home improvement; business; economics; labor.

HOLDINGS: 73,100 books and bound periodicals; 1,280 science and business journals; 1,200 industrial directories; 1,226 microfilms; 13,800 microfiche; 40,000 microcards; 70 drawers of pamphlets and clippings; standards of 3 major agencies; 950 volumes of bibliographies; 200,000 Government document items.

INFORMATION SERVICES: Answers inquiries; provides assistance for reference and literature searching; provides copying services; permits onsite reference.

DARTMOUTH COLLEGE

Thayer School of Engineering Library

0730 Dartmouth College
Hanover, N.H. 03755
Tel: (603) 646-2631

AREAS OF INTEREST: Civil, environmental, electrical, mechanical, and metallurgical engineering; chemical and methods engineering; optimization theory and application; radiophysics.

HOLDINGS: 10,000 books; 290 periodical titles; reports; Sylvanus Thayer Collection of early works (mostly late 18th and early 19th century) in architecture, civil engineering, mathematics, mechanics, and natural and applied science, as well as military works (many in French), including the "Annales des ponts et chaussées" from 1831 through 1886 and various publications of the Ecole des ponts et chaussees.

PUBLICATIONS: Reprint series.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite use of collection.

DASA INFORMATION AND ANALYSIS CENTER (DASIAC)

0731 General Electric TEMPO
816 State St.
Santa Barbara, Calif. 93102
Tel: (805) 965-0551 Ext. 501

The Center, sponsored by the Defense Atomic Support Agency (DASA) of the Department of Defense, and operated by General Electric TEMPO, serves as a central collection point and reference center for all technical information pertinent to the effects of nuclear explosions.

AREAS OF INTEREST: Nuclear weapon effects; nuclear weapon output (includes radiation and heavy particles produced as a result of fission/fusion processes); weapon phenomena (includes shock, fireball, atmospheric ionization, and electromagnetic pulse phenomena produced by environment/nuclear weapon interactions); system effects (includes nuclear weapon effects on complete military systems, subsystems, components, and materials, as well as effects on nonmilitary installations); research facilities and instrumentation (includes techniques and hardware associated with nuclear weapon programs in blast and shock, electromagnetic, thermal, nuclear radiation, and integrated effects research).

HOLDINGS: Data compilations, technical reports, photos, maps, charts, project records, computer programs.

PUBLICATIONS: State-of-the-art reviews, conference and symposium proceedings, handbooks, test readiness and engineering reports, computer code information, newsletters, special bibliographies and literature surveys, accession lists. Many of the publications are classified and all distribution is controlled by Headquarters, DASA.

INFORMATION SERVICES: Provides consulting and advisory services, computational support, reproduction facilities, study facilities, and reference assistance; makes materials available to qualified users; assists in organizing, announcing, and conducting seminars, workshops, and review meetings held at the Center. Services are available to all elements of the Department of Defense, other authorized Federal agencies, and contractors, in accordance with DoD security procedures. Most of the information retained and disseminated by the Center is classified defense information and access to this information is available only to those individuals or organizations that have a certified need for nuclear weapons effects information. All visitors to the Center must file suitably endorsed visit clearance requests to DASIAC in accordance with military security procedures.

D.A.T.A.

0732 32 Lincoln Ave.
Orange, N.J. 07050
Tel: (201) 673-8030

D.A.T.A. is a division of Computing and Software, Inc.

AREAS OF INTEREST: Comprehensive data on worldwide, commercially available transistors, semiconductor diodes and silicon controlled rectifiers, digital integrated circuits, linear integrated circuits, semiconductor device mounting hardware, microwave tubes, and evaluated suppliers of various processes.

HOLDINGS: 42,000 technical data sheets, including foreign data (90 percent in English), from electronic component manufacturers in the United States, Australia, Canada, England, France, Germany, Italy, Japan, the Netherlands, Sweden, and Switzerland.

PUBLICATIONS: The following technical reference tabulations, organized and cross-referenced by both electrical characteristics and type numbers, are available by subscription: *Transistor D.A.T.A. Book*, issued in complete semiannual editions with a supplement to each; *Semiconductor Diode & SCR D.A.T.A. Book*, *Digital Integrated Circuit D.A.T.A. Book*, *Linear Integrated Circuit D.A.T.A. Book*, and *Microwave Tube D.A.T.A. Book*, issued in complete semiannual editions; *D.A.T.A.-Book of Discontinued Transistors and Semiconductor Device Mounting Hardware D.A.T.A. Book*, issued in one complete annual edition. The data in the above publications are also available on magnetic tape. A listing of evaluated aerospace suppliers and the processes for which they are evaluated is available in the quarterly *C.A.S.E. Register of Evaluated Suppliers*. *Transistor Information Microfile*, encompassing all transistor data sheets published by U.S. manufacturers, is updated quarterly and available in 16mm rolls or cartridges.

INFORMATION SERVICES: Answers technical inquiries; provides literature-searching services; provides consulting services for fee.

DATA PROCESSING MANAGEMENT ASSOCIATION

0733 524 Busse Highway
Park Ridge, Ill. 60068
Tel: (312) 825-2128

AREAS OF INTEREST: Computer systems; data processing applications; programming languages; educational methods in data processing.

HOLDINGS: 550 books; 60 periodical titles; 30 motion pictures; data compilations, abstracts and indexes, bibliographies, pamphlets, glossaries, press releases.

PUBLICATIONS: *Journal of Data Management* (monthly); *DPMA Quarterly*.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides limited bibliographic services; prepares analyses and evaluations; conducts annual "Certificate in Data Processing" course and examination; permits onsite use of collection. Services are primarily for members, but are also available to others as time permits.

DEFENSE CERAMIC INFORMATION CENTER

see Battelle Memorial Institute

DEFENSE, DEPARTMENT OF

see also Air Force, Department of the; Army, Department of the; Navy, Department of the

Armed Forces Radiobiology Research Institute Library

0734 Bethesda, Md. 20014
Tel: (301) 295-1330

AREAS OF INTEREST: Radiobiology; physiology; biochemistry; chemistry; pathology; immunology; psychology; nuclear physics; nuclear engineering; nuclear reactors; dosimetry; health physics.

HOLDINGS: Approximately 5,000 books, 250 periodical titles, and 100,000 reports in hard copy and microfiche.

PUBLICATIONS: *AFRRI Scientific Reports*; *AFRRI Technical Notes*.

INFORMATION SERVICES: Answers inquiries; provides reference services; makes interlibrary loans; permits onsite use of collection. Services are available to those with a need-to-know and whose user requirements can be processed on an "as time permits" basis.

Armed Services Explosives Safety Board

0735 Forrestal Bldg.
Washington, D.C. 20314

Location:

1000 Independence Ave. SW.
Washington, D.C.
Tel: (202) 693-5436 or 693-5458

AREAS OF INTEREST: Explosives and chemical munitions safety; ammunition handling and storage; magazine design, layout, and construction materials; barricade design; protective construction; transportation and disposal of hazardous materials; sensitivity of explosives; propagation of explosions; blast damage; fragment and debris hazard; dangerous material classification; shock attenuation; high explosive yield.

HOLDINGS: Books, technical reports.

PUBLICATIONS: Reports, bibliographies, proceedings of conferences and seminars.

INFORMATION SERVICES: Answers inquiries and makes referrals, subject to security restrictions; provides advisory and consulting services to the Department of Defense, other Government agencies, authorized contractors, approved foreign governments, and the public relative to the safety problems associated with the manufacture, testing, handling, transportation, and storage of ammunition and explosives when the subject matter is of interest to the Department of Defense or the Department can legally supply information in the public interest.

Defense Atomic Support Agency

Technical Library

0736 Defense Atomic Support Agency
Washington, D.C. 20305

Location:
14th St. and Courthouse Rd.
Arlington, Va.
Tel: (703) 694-4873

AREAS OF INTEREST: Nuclear weapons research, development, test, and evaluation programs.

HOLDINGS: 50,000 reports; 1,000 books; 50 periodical titles.

PUBLICATIONS: Abstracts, bibliographies, reports.

INFORMATION SERVICES: Answers inquiries; provides reference, literature-searching, and duplication services; makes referrals; makes interlibrary loans; permits onsite use of collection. Services are available to Federal Government agencies and their contractors with a proper need-to-know.

Defense Communications Agency

0737 8th St. and South Court House Rd.
Arlington, Va. 20305
Tel: (202) 694-1343 or 694-3124

AREAS OF INTEREST: Department of Defense communication system; National Communications System; management standards and elimination of duplication in communication systems; integration of communication systems; technical support to the National Military Command System.

INFORMATION SERVICES: Answers inquiries within limits set by security regulations; makes referrals.

Defense Documentation Center

0738 Defense Supply Agency
U.S. Department of Defense
Cameron Station
Alexandria, Va. 22314
Tel: (202) 694-7067

The Defense Documentation Center (DDC) is the central depository for technical reports generated by the research, development, test, and evaluation activities of the Department of Defense and its contractors, subcontractors, and grantees. Technical reports are received from other U.S. Government agencies and from several foreign nations on a reciprocal or voluntary basis. DDC operates, for organizations registered for service, the Research and Technology Work Unit Information System, a fully automated data bank containing work unit information descriptions of current Defense-sponsored and NASA-sponsored efforts in research and technology. Data banks concerning Contractor Performance Evaluation Reports and Contractor Cost Reduction Reports are maintained for use by selected military procurement organizations. Other data banks are maintained for special projects directed by the Director, Defense Research and Engineering. In addition, the Center is responsible for the development of long-range concepts and requirements for new or improved Defense documentation and information systems, services, and products.

AREAS OF INTEREST: The fields of science and technology are subdivided into the following categories for announcement and distribution control: aeronautics; agriculture; astronomy and astrophysics; atmospheric sciences; behavioral and social sciences; biological and medical sciences; chemistry; earth sciences and oceanography; electronics and electrical engineering; energy conversion (nonpropulsive); materials; mathematical sciences; mechanical, industrial, civil, and marine engineering; methods and equipment; military sciences; missile technology; navigation, communications, detection, and countermeasures; nuclear science and technology; ordnance; physics; propulsion and fuels; and space technology.

HOLDINGS: The technical report collection totals more than a million titles with approximately 45,000 titles added each year. About 20,000 summaries of management and technical information concerning on-going DoD and NASA research and development projects are maintained in the R&T Work Unit Information System.

PUBLICATIONS: *Technical Abstract Bulletin*, a classified (Confidential) publication, appears twice monthly and contains announcement descriptions of classified documents and of unclassified reports having release limitations. *Technical Abstract Bulletin Indexes*, unclassified, is distributed to all registered user organizations and includes the Corporate Author-Monitoring Agency Index, Subject Index, Title Index, Personal Author Index, Contract Index, Report Number Index, and Release Authority Index. This index volume is issued twice monthly to coincide with release of the announcement publication and is cumulated quarterly and annually. Other publications include scheduled bibliographies, bibliographies tailor-made to individual user requests, R&T Work Unit System printouts, an *Annual Historical Summary*, and informational materials concerning the Center's activities, documentation services, and information concerning eligibility to obtain these services.

INFORMATION SERVICES: DDC products and services are available to U.S. Government agencies, contractors, subcontractors and grantees, and to Defense potential contractors formally associated with a military department awareness program. To receive service, an organization must be officially registered with the Center. Technical reports are supplied to users in microform without cost; a service charge is imposed for paper copies. Bibliographic searches are made; all of the AD collection is computerized for rapid searching. Scheduled bibliographies, which concern subjects of high interest, are published as part of the technical report collection. Report bibliographies are prepared in response to specific requests for references to technical reports having a particular relationship in subject matter or other aspects. Compilations of scientific subject-oriented or management-oriented data are produced on request from a data bank of stored work unit information on current research and technology efforts of DoD and NASA. Work unit information that is unclassified and unlimited is furnished periodically to the Science Information Exchange for use in the public domain. The National Science Foundation receives work unit information on Government-sponsored research and engineering projects at academic institutions. A referral service, coordinated with the National Referral Center at the Library of Congress and covering activities within or sponsored by the Department of Defense, is operated by DDC. The unclassified-unlimited Defense technical reports are announced in *U.S. Government Research and Development Reports*, a publication of the National Technical Information Service (NTIS) of the Department of Commerce, and are available for sale to the general public through NTIS.

Defense Logistics Studies Information Exchange

0739 Fort Lee, Va. 23801
Tel: (703) 734-2300

AREAS OF INTEREST: Logistics, logistics management, logistics organization, logistics resources, and logistics operations, including those aspects of military operations that deal with: design and development, acquisition, storage, movement, distribution, maintenance, evacuation, and disposition of materiel; movement, evacuation, and hospitalization of personnel; acquisition or construction, maintenance, operation, and disposition of facilities; acquisition or furnishing of services. (Basic research studies and projects, studies of strategy and tactics, and materiel (hardware) studies are excluded.)

HOLDINGS: 15,300 planned, in-process, and completed logistics studies; technical journals, student theses, books, bibliographies, indexes.

PUBLICATIONS: *Annual Department of Defense Bibliography of Logistics Studies and Related Documents* (1 January, updated by three quarterly supplements).

INFORMATION SERVICES: Provides reference services; permits onsite use of collection and develops custom bibliographies on logistics subjects for personnel of the Department of Defense, other Government agencies, their contractors, and grantees.

Office of the Director of Defense Research and Engineering

Advisory Group on Electron Devices

0740 Office of the Director of Defense Research
and Engineering
201 Varick St.
New York, N.Y. 10014
Tel: (212) 620-3375

AREAS OF INTEREST: Electronics; electron devices; microwave devices (generators, amplifiers, detectors, etc.); low-power devices (transistors, electron tubes, diodes, rectifiers, voltage regulators, etc.); high-power devices (transistors, electron tubes, rectifiers, controlled-rectifier devices, modulators, etc.); special devices (displays, memories, detectors, cathode ray tubes, light sensing devices, etc.); passive devices (resistors, capacitors, relays, switches, filters, etc.).

HOLDINGS: Contractors' technical reports, abstracts of research and development programs for electron devices, data.

PUBLICATIONS: *Status Report on Projects Dealing with Advanced Electron Device Technology* (bimonthly); project briefs (annual with semiannual supplements); proceedings, review journal, technical reports.

INFORMATION SERVICES: Provides information retrieval services to Government agencies and Government contractors within the electron devices field of interest; provides unclassified and nonproprietary information upon request to contractors and potential contractors.

DEFENSE METALS INFORMATION CENTER

see Battelle Memorial Institute

DELAWARE AGRICULTURAL EXPERIMENT STATION AND EXTENSION SERVICE

see University of Delaware

DELAWARE GEOLOGICAL SURVEY

0741 University of Delaware
Newark, Del. 19711
Tel: (302) 738-2568 or 738-2569

AREAS OF INTEREST: Geology of Delaware and related subjects, including stratigraphy, sedimentology, water resources, hydrology, hydrogeology, and mineral resources.

HOLDINGS: Reports, maps and charts, well logs, and well sample files are maintained in cooperation with the University of Delaware. All data, except those currently being interpreted by the Survey, are available on request.

PUBLICATIONS: *Reports of Investigations* and *Delaware Geological Survey Bulletin* (both irregular and disseminated free).

INFORMATION SERVICES: Answers inquiries on geology and water resources in Delaware; provides consulting services to Government agencies, industries, and individuals.

DELAWARE HIGHWAY DEPARTMENT

0742 P.O. Box 151
Dover, Del. 19901
Tel: (302) 734-5711

AREAS OF INTEREST: Highway engineering; traffic control; public utilities planning; mosquito control; seashore erosion.

HOLDINGS: 50 books; 200 reports; 1,000 photos; 1,000 rolls of microfilm of project files, which include plans.

PUBLICATIONS: Annual report.

INFORMATION SERVICES: Answers inquiries; provides consulting services by appointment; lends some materials.

DELAWARE RIVER BASIN COMMISSION

0743 P.O. Box 360
Trenton, N.J. 08603

Location:

25 Scotch Rd.
Trenton, N.J.
Tel: (609) 883-9500

AREAS OF INTEREST: Comprehensive river basin planning and development in the Delaware River Basin; water supply; precipitation; runoff; ground water; water use; water quality; pollution control; flood control; watershed management; recreational use of water; sewage and industrial wastes treatment facilities; hydroelectric power; estuaries; salt water intrusion; water economics; water law; water reuse; water rights; weather modification.

HOLDINGS: Data collection and a small library of books, journals, abstracts, newsletters, bibliographies, technical reports, photos, slides, maps, charts, pamphlets, and brochures.

PUBLICATIONS: Technical reports, annual report.

INFORMATION SERVICES: Answers technical inquiries; provides bibliographic citations; makes referrals; distributes, free of charge, stream-stage and groundwater-level forecasting data for water use, flood warning, water quality maintenance, and other purposes; permits onsite use of collection.

DELAWARE RIVER PORT AUTHORITY OF PENNSYLVANIA AND NEW JERSEY

0744 Administration Bldg.
Benjamin Franklin Bridge Plaza
Camden, N.J. 08101
Tel: (609) 963-6420

AREAS OF INTEREST: Bridge and ferry operations in Delaware River area; port facilities; rapid transit systems.

INFORMATION SERVICES: Answers brief inquiries.

DELAWARE SOIL AND WATER CONSERVATION COMMISSION

0745 P.O. Box 567
Georgetown, Del. 19947
Tel: (302) 856-2571 Ext. 201

AREAS OF INTEREST: Soil conservation; water conservation; water management; flood control; sediment control; drainage; water management and erosion control in urban areas; stream dredging; water-based recreation; impoundments; pond development.

HOLDINGS: Reports, records, standards and specifications, slides, maps, pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; makes field surveys.

DELAWARE STATE BOARD OF HEALTH

Bureau of Environmental Health

0746 Delaware State Board of Health
State Health Bldg.
Federal and D Sts.
Dover, Del. 19901
Tel: (302) 734-5711 Ext. 416 or 417

AREAS OF INTEREST: Environmental pollution; toxicology; contamination of food.

HOLDINGS: File of standards and specifications for use of toxic substances, primarily pesticides and heavy metals.

INFORMATION SERVICES: Answers inquiries; provides consulting services; provides copies of printed standards.

DELAWARE WATER AND AIR RESOURCES COMMISSION

0747 Lockerman St. and Legislative Ave.
Dover, Del. 19901
Tel: (302) 734-5711 Ext. 470 or 471

AREAS OF INTEREST: Air and water pollution control; industrial and domestic wastes treatment; water resources and subaqueous lands management; mineral exploration and exploitation regulation.

HOLDINGS: Books, journals, standards and specifications, maps, data.

PUBLICATIONS: Special reports (titles are listed in the Commission's biennial *Progress Report*, available free).

INFORMATION SERVICES: Answers inquiries; permits onsite reference; performs laboratory analyses of samples of water, sewage, and industrial wastes affecting public water supplies.

DENVER BUILDING DEPARTMENT

0748 1445 Cleveland Pl., Room 203
Denver, Colo. 80202
Tel: (303) 297-2441

AREAS OF INTEREST: Building codes; construction methods and materials; air pollution control for City and County of Denver.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

DENVER POLICE DEPARTMENT CRIME LABORATORY

0749 13th and Champa Sts.
Denver, Colo. 80204
Tel: (303) 297-2845

AREAS OF INTEREST: Ballistics; tool mark comparisons; fingerprinting; handwriting; alcohols; narcotics; drugs.

HOLDINGS: 500 books.

INFORMATION SERVICES: Answers inquiries; makes referrals. Services are available to law enforcement agencies or other governmental agencies only.

Facilities include photographic and handwriting analysis equipment and some instrumental chemistry and microscopic facilities.

DENVER PUBLIC LIBRARY

Science and Engineering Department

0750 Denver Public Library
1357 Broadway
Denver, Colo. 80203
Tel: (303) 266-0851

AREAS OF INTEREST: Mathematics; astronomy; physics, including electricity, sound, light, heat, hydraulics, and nuclear energy; chemistry; earth sciences; anthropology and archaeology; biology; agriculture; botany and zoology; patents and inventions; technology; all types of engineering and electronics involving radar, radio, and television; petroleum; mining; metallurgy and chemical technology; refrigeration; auto mechanics; welding; sheet metal work; drafting; blue print reading; guns; horology; manufacturing; building trades and construction; nontechnical medical and veterinary materials; pets and animal husbandry; aeronautics; conservation.

HOLDINGS: 99,036 books; 32,527 bound journals; 41,000 State and foreign documents; 494,193 Federal documents, including AEC reports; U.S. Geological Survey topographic maps and other geological survey publications; U.S. Bureau of Mines publications; U.S. Patent Office Gazette and other Federal Government publications; Rand Reports; standards, specifications, codes.

PUBLICATIONS: *New Additions List* (semiannual).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services; permits onsite reference; makes interlibrary loans; provides duplication services for fee.

DENVER RESEARCH INSTITUTE

see University of Denver

DEPARTMENT OF (U.S. GOVERNMENT)

see Agriculture; Air Force; Army; Commerce; Defense; Health, Education, and Welfare; Housing and Urban Development; Interior; Justice; Navy; Post Office; State; Transportation; Treasury

DESERET TEST CENTER TECHNICAL LIBRARY

see Army, Department of the. Army Materiel Command. Army Test and Evaluation Command

DETROIT DEPARTMENT OF PUBLIC WORKS

City Engineer's Office

0751 Detroit Department of Public Works
528 City-County Bldg.
Detroit, Mich. 48226
Tel: (313) 965-4200 Ext. 7147

AREAS OF INTEREST: Municipal engineering; architecture; surveying; construction; testing of materials, including structural materials, oils, concrete, asphalts, and soils.

HOLDINGS: Records of municipal structures and facilities; engineering design data.

INFORMATION SERVICES: Answers brief inquiries. Technical data are available to any public agency on request.

DETROIT EDISON CO.

0752 2000 Second Ave.
Detroit, Mich. 48226
Tel: (313) 962-2100

AREAS OF INTEREST: Engineering and associated fields related to the production, distribution, and use of electric power and steam, including the following technological interests: chemical and fuel analysis; ultimate fuel analyses; ash fusion characteristics; petrochemistry; water chemistry; electric cable evaluation, including high-voltage impulse tests and 60-HZ high-voltage and high-current tests; environmental effects on electrical equipment, including high and low temperatures and atmospheric pollutants; transmission line phenomena, including icing and vibration; electric heating development; switching station analogs and surge protection studies; thermodynamics, including heat transfer, cooling towers, and cycle efficiencies; hydraulics; stress analysis and structural and dynamic modeling; environmental pollution control, including stack effluent dispersion studies, sulphur dioxide removal from combustion products, fly ash utilization, water treatment, and cooling water dispersion studies; nuclear engineering, including radioisotope applications, reactor operation, liquid sodium studies, and nuclear fuel studies; instrumentation.

HOLDINGS: Motion pictures on nuclear physics, electricity, magnetism, statics, flow-induced vibration, and water hammer; reprints of technical papers by staff (about 15 per year); technical reference books, project records, design drawings of power plants and equipment.

INFORMATION SERVICES: Provides speakers and films on various scientific subjects at several levels for schools, science clubs, and civic groups.

Facilities include modern laboratories with acoustic measurement equipments, emissions, infrared and ultraviolet spectroscopes, X-ray diffraction, differential thermal analyzers, creep rupture machines, 1,000-kv impulse generator, 60-HZ high-voltage, high-current facility, analog computers, remote terminal to digital computers, low-velocity wind tunnel, hydraulic test facility, environmental test rooms, and mobile equipment for air pollution measurement.

DETROIT PUBLIC LIBRARY

Technology and Science Department

0753 Detroit Public Library
5201 Woodward Ave.
Detroit, Mich. 48202
Tel: (313) 321-1000

AREAS OF INTEREST: Automotive history; aeronautical/aerospace, electronic, mechanical, metals and materials, and nuclear engineering; environmental sciences; oceanography; metals; botany (wild flowers).

HOLDINGS: 108,000 books; 82,000 journals; 160,000 reports; State documents on agriculture; patents, films, photos. The Library has been a depository for U.S. documents since 1868, and is also a depository for U.S. patents.

INFORMATION SERVICES: Provides reference and duplication services; makes interlibrary loans; permits onsite reference; lends materials to card holders.

DIAMOND SHAMROCK CHEMICAL CO.

Nopco Chemical Division Library

0754 Diamond Shamrock Chemical Co.
1st and Essex Sts.
Harrison, N.J. 07029
Tel: (201) 484-8400

Diamond Shamrock Chemical Co. is a unit of Diamond Shamrock Corp.

AREAS OF INTEREST: Industrial, analytical, organic, textile, paper, and leather chemistry and related technologies; surface active agents; fats and vegetable oils; polyurethane resins; animal and poultry nutrition; dairy products; vitamins.

HOLDINGS: 5,500 books; 450 journal titles; 200,000 patents; 500 reports.

PUBLICATIONS: Patent abstract journal, accessions list.

INFORMATION SERVICES: Makes interlibrary loans.

DIAMOND SHAMROCK CORP.

T. R. Evans Research Center Library

0755 P.O. Box 348
Painesville, Ohio 44077

Location:

Auburn Rd.
Painesville, Ohio
Tel: (216) 352-9311

AREAS OF INTEREST: Organic and inorganic chemistry; plastics; polymers; electrochemistry; agricultural chemistry.

HOLDINGS: 5,000 books; 3,000 reports; 3,500 periodicals; 100,000 patents; data.

PUBLICATIONS: Bibliographies.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference by request.

DIAMOND WHEEL MANUFACTURERS INSTITUTE

0756 2130 Keith Bldg.
Cleveland, Ohio 44115
Tel: (216) 241-7333

AREAS OF INTEREST: Diamond wheels for grinding and cutting.

HOLDINGS: Standards and specifications.

INFORMATION SERVICES: Answers inquiries; makes referrals.

DIAMONITE PRODUCTS MANUFACTURING CO.

0757 McConkey St. Extended
Shreve, Ohio 44676
Tel: (216) 567-4211

AREAS OF INTEREST: Aluminum oxide ceramics; high alumina ceramics; electronic ceramic components; insulators (dielectric materials); pebble mill grinding rods and balls; sandblast nozzles, welding cups and nozzles, and mortars and pestles.

HOLDINGS: 400 books; 100 reports; 2,000 photos; 1,100 graphs and tables; 100 standards and specifications; 200 reprints; 2,000 samples of ceramic bodies and glazes; 1,000 ceramic test specimens; abstracts, press releases, clippings.

PUBLICATIONS: Brochures.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services; permits onsite reference to nonproprietary information.

DIATOMIC MOLECULE SPECTRA AND ENERGY LEVELS CENTER

see Commerce, Department of. National Bureau of Standards

DIFFUSION IN METALS AND ALLOYS DATA CENTER

see Commerce, Department of. National Bureau of Standards. Metallurgy Division

DIFFUSION INFORMATION CENTER

0758 22447 Lake Rd., 205D
Cleveland, Ohio 44116
Tel: (216) 331-3304

AREAS OF INTEREST: Diffusional transport in inorganic solids, including transport in solid metals and alloys, liquid metals and alloys, intermetallic compounds, simple and complex oxides (mixtures and solutions), halides, nonmetallic elements, and all other inorganic solids and their melts; diffusion data, mechanisms, and experimental techniques.

PUBLICATIONS: *Diffusion Data* (quarterly); special reports (irregular).

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, literature-searching, and abstracting and indexing services. Services are provided at cost.

The mailing address of the Center's European office is P.O. Box 505, CH--4500 Solothurn, Switzerland.

DIGITAL EQUIPMENT COMPUTER USERS SOCIETY

0759 146 Main St.
Maynard, Mass. 01754
Tel: (617) 897-5111 Ext. 2414 or 2447

AREAS OF INTEREST: Applications of computers in many areas, including education, biomedicine, physics, research, typesetting, and graphics.

PUBLICATIONS: *Decuscope* (newsletter); abstracts of papers for presentation at symposia; symposia proceedings containing full papers presented on the applications of Digital Equipment Corporation's PDP's (Program Data Processors); program library catalog.

INFORMATION SERVICES: Answers inquiries; furnishes literature on the activities of the Society and information on the applications of and the software used with Digital Equipment Corporation's PDP's.

DISTRICT OF COLUMBIA DEPARTMENT OF PUBLIC HEALTH

Directorate for Environmental Health

0760 District of Columbia Department of Public Health
300 Indiana Ave. NW.
Washington, D.C. 20001
Tel: (202) 629-3105

AREAS OF INTEREST: Water quality control; radiological health; air pollution and environmental engineering; drug and chemical control; food protection; public health aspects of milk production and processing of dairy products; industrial hygiene; institutional hygiene; vector control; water supply for the District of Columbia; bathing place safety and sanitation; supervision of sewage disposal and sewage by-products; health aspects of the Potomac water system.

HOLDINGS: Standards and regulations.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; identifies vectors and performs biochemical laboratory examinations.

DISTRICT OF COLUMBIA DEPARTMENT OF SANITARY ENGINEERING

Office of the Director

0761 District of Columbia Department of Sanitary Engineering
Presidential Bldg.
415 12th St. NW.
Washington, D.C. 20004
Tel: (202) 629-3415

AREAS OF INTEREST: Sanitary engineering; water quality control; water supply; water pollution control; solid waste collection and disposal.

HOLDINGS: Potomac River and Anacostia River sampling data and analyses.

INFORMATION SERVICES: Answers inquiries; provides consulting services primarily to local governmental organizations and District of Columbia regional agencies; makes referrals.

DOALL CO.

0762 254 North Laurel Ave.
Des Plaines, Ill. 60016
Tel: (312) 824-1122

AREAS OF INTEREST: Machine tools, including band sawing machines for band machining all types of materials by sawing, filing, slicing, grinding, and polishing; precision surface grinders; micro band slicing machines; all types of cutting tools (saws, drills, taps, reamers, milling cutters, grinding wheels, etc.); precision measuring instruments for dimensional quality control, ranging from scales, micrometers, and comparators to laser interferometers; cutting oils; coolants; lubricants; cleaners; paint; industrial supplies, including tool steels, hand tools, fasteners, etc.

HOLDINGS: Textbooks on machining and measuring techniques; reports on research, developments, and applications; films on operating procedures; photos of applications; educational wall charts on productivity, tool evolution, tool selection and care, etc.; data.

PUBLICATIONS: *DoAll Digest* (quarterly); reports, standards and specifications, data handbooks, catalogs and other literature covering items for sale, educational booklets, operator's manuals.

INFORMATION SERVICES: Provides reference and consulting services; lends nature study, vocational, and product training films; permits onsite visitation and use of reference library in its Hall of Progress; sponsors historical information centers with museums containing basic tools from the stone age, early steam engines and steam boats, and models of a variety of original machine tools and cutting tools.

DON L. QUINN TESTING LABORATORIES, INC.

0763 2639 Milwaukee Ave.
Chicago, Ill. 60647
Tel: (312) 235-3320

AREAS OF INTEREST: Containers and packaging materials, including woods, paper, plastics, and cushioning materials; instrumentation; transportation.

HOLDINGS: Data.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Provides consulting services for fee; permits onsite use of collection; lends materials.

Facilities include physical testing equipment and machines, accelerometers, environmental chambers, etc.

DORR-OLIVER, INC. TECHNICAL LIBRARY

0764 77 Havemeyer Lane
Stamford, Conn. 06904
Tel: (203) 348-5871 Ext. 550

AREAS OF INTEREST: Chemical and sanitary engineering; food processing; mining; metallurgy; business; marketing; management.

HOLDINGS: 4,000 books; 175 periodical titles; bound journals in the chemical and sanitary engineering fields; technical societies' proceedings and transactions; *Chemical Abstracts*(1911-current).

PUBLICATIONS: Library bulletin (irregular).

INFORMATION SERVICES: Answers inquiries; provides duplication services; makes interlibrary loans; permits onsite use of collection by appointment.

DOSSIN GREAT LAKES MUSEUM

0765 Belle Isle
Detroit, Mich. 48207
Tel: (313) 567-7441

AREAS OF INTEREST: Ships and shipping on the Great Lakes; historical and current information on ship names, owners, and engines.

HOLDINGS: 20,000 photos; 300 periodicals; 7,000 abstracts and indexes; navigation instruments and ship models; bound Government records and private records of shipping on the Great Lakes; cross-indexed file of ships, arranged by any name the ship has ever had, showing owners, dimensions, type of engines, year built, etc.

PUBLICATIONS: *Telescope* (bimonthly).

INFORMATION SERVICES: Answers inquiries on specific vessels (written requests for information must include a self-addressed, stamped return envelope); makes referrals; provides literature-searching services; permits onsite reference by appointment (no browsing is allowed).

DOUGLAS AIRCRAFT CO.

see McDonnell Douglas Corp.

DOWNTOWN IDEA EXCHANGE

0766 125 East 23d St.
New York, N.Y. 10010
Tel: (212) 473-7003

AREAS OF INTEREST: Central business districts; city planning; urban renewal; parking; traffic; mass transportation; marketing; urban design; land use and values; regional planning; zoning; subdivision; urban economics; urban systems and data processing; architecture; environmental and pollution testing and planning.

HOLDINGS: 3,500 books; journals, reports, maps, charts, films, photos.

PUBLICATIONS: *Downtown Idea Exchange* (semimonthly).

INFORMATION SERVICES: Provides reference and consulting services; permits onsite use of collection by request.

DRURY COLLEGE COMPUTATION LABORATORY

0767 Springfield, Mo. 65802
Tel: (417) 865-8731

AREAS OF INTEREST: Computers.

INFORMATION SERVICES: Answers inquiries.

DRY COLOR MANUFACTURERS' ASSOCIATION

0768 382 Springfield Ave.
Summit, N.J. 07901
Tel: (201) 273-6226

AREAS OF INTEREST: Color pigments, including organic pigment colors and lakes, inorganic chemical pigments and earthen colors; toxicity of pigments; pollution problems; other matters of general interest to pigment manufacturers.

PUBLICATIONS: *The Rainbow* (quarterly, circulated to members only); technical bulletins.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides speakers at meetings on subjects of interest in the technical and other areas of the pigment color manufacturing industry.

E. I. DU PONT DE NEMOURS AND CO., INC.

Marshall Laboratory Library

0769 E. I. du Pont de Nemours and Co., Inc.
3500 Grays Ferry Ave.
Philadelphia, Pa. 19146
Tel: (215) 465-3000 Ext. 635

AREAS OF INTEREST: Organic protective and decorative coatings; paints; lacquers; polymer chemistry; science of color.

HOLDINGS: 4,500 reports; 3,000 books; 200 journals; 4,000 pamphlets.

INFORMATION SERVICES: Lends all materials except unpublished internal information; provides duplication services.

Technical Library

0770 E. I. du Pont de Nemours and Co., Inc.
3145 Du Pont Bldg.
Wilmington, Del. 19898

Tel: (302) 774-7232

AREAS OF INTEREST: Science and technology, including agriculture, chemistry, chemical engineering, physics, physical chemistry, dyes, explosives, fibers, films, paints and lacquers, photo products, polymer science, plastics, pigments, and nuclear physics.

HOLDINGS: 19,500 books; 6,900 bound journals; 2,768 periodical titles received; 90 drawers and 143 shelves of pamphlet material.

PUBLICATIONS: *Library Notes* (monthly); *Featuring Translations* (monthly). Publications are for Company use only.

INFORMATION SERVICES: Makes limited interlibrary loans; permits onsite reference at discretion of Manager.

DUDLEY OBSERVATORY

0771 100 Fuller Rd.
Albany, N.Y. 12205
Tel: (518) 459-4750

AREAS OF INTEREST: Astronomy; historical astronomy; cosmic dust.

HOLDINGS: 6,000 volume library; extensive collection of cosmic dust; extensive slide and photographic collection.

INFORMATION SERVICES: Answers brief inquiries; permits onsite reference; lends some items with permission of the Director.

Facilities include specialized shops and laboratories.

DUKE UNIVERSITY

Chemistry Library

0772 Duke University
Duke University Rd.
West Campus
Durham, N.C. 27706
Tel: (919) 681-0111 Ext. 3004

AREAS OF INTEREST: Molecular, biological, physiological, nuclear, polymer, and theoretical chemistry; thermochemistry; electrochemistry; gases; tobacco.

HOLDINGS: 25,000 books, journals, and reports.

INFORMATION SERVICES: Permits onsite reference; makes interlibrary loans; provides periodical current awareness service.

Marine Laboratory Library

0773 Duke University
Beaufort, N.C. 28516
Tel: (919) 728-2111

AREAS OF INTEREST: Biological, physical, chemical, and geological oceanography; marine ecology; marine zoology; marine parasitology; physiological ecology; invertebrate development; marine botany.

HOLDINGS: 3,500 books; 130 journals and reports; 11,768 reprints; maps, charts.

PUBLICATIONS: Monographs (reprints exchanged).

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference by the staff, students, and researchers. Researchers interested in carrying out studies at the Laboratory at any time of the year are requested to make advance arrangements through the Director.

Mathematics--Physics Library

0774 Duke University Library
West Campus
Durham, N.C. 27706
Tel: (919) 681-0111 Ext. 8-118
(919) 681-0111 Ext. 2906 (Interlibrary loan)

AREAS OF INTEREST: Electronics; theoretical and low-temperature physics; quantum theory; high energy; solid state; molecular spectroscopy; atomic and nuclear physics; algebra; geometry; statistics; topology; analysis; computer science, logic, and foundations.

HOLDINGS: 39,500 books; journals, reports.

INFORMATION SERVICES: Permits onsite reference; makes interlibrary loans through the Interlibrary Loan Librarian, Duke University Library.

School of Engineering Library

0775 Duke University
Durham, N.C. 27706
Tel: (919) 684-2371

AREAS OF INTEREST: Civil, electrical, mechanical, biomedical, and oceanographic engineering.

HOLDINGS: 40,000 books; 480 current periodicals; report collection.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services; lends materials; makes interlibrary loans; permits onsite reference.

DUNLAP AND ASSOCIATES, INC.

0776 1 Parkland Dr.
Darien, Conn. 06820
Tel: (203) 655-3971

AREAS OF INTEREST: Systems design and analysis; operations research; human engineering; applied and experimental psychology and other behavioral sciences; personnel subsystems; equipment design; anthropometrics; research and analysis studies on weapons, transportation, communications, information systems, urban systems, logistics, industrial systems, tourism and international development, agriculture, exotic environments, accident prevention training, and new product development.

HOLDINGS: 2,500 books; 130 periodicals; 7,000 reports; films, photos, maps, charts, data.

PUBLICATIONS: Reports, monographs.

INFORMATION SERVICES: Provides reference services to and permits onsite use of collection by nonemployees as time, policy, and security measures permit; makes interlibrary loans.

DUODECIMAL SOCIETY OF AMERICA, INC.

0777 20 Carleton Pl.
Staten Island, N.Y. 10304
Tel: (212) 442-0010

AREAS OF INTEREST: Mathematics, with particular relation to the use of twelve as a base in numeration; weights and measures; pure and applied sciences.

HOLDINGS: Books, journals, pamphlets, data.

PUBLICATIONS: *Duodecimal Bulletin* (quarterly); reports, bibliography.

INFORMATION SERVICES: Provides reference and consulting services without charge; makes educational material available to schools and individuals on request.

DYNATRONICS, INC. LIBRARY

0778 P.O. Box 2566
Orlando, Fla. 32802

Location:

Highway 17-92 North
Orlando, Fla.
Tel: (305) 838-6161

AREAS OF INTEREST: Electrical engineering; mechanical engineering; physics; mathematics.

HOLDINGS: Books, journals, reports.

INFORMATION SERVICES: Makes interlibrary loans.

EARLHAM COLLEGE LIBRARIES AND MUSEUM

Lilly Library, Science Library, and Joseph Moore Museum

0779 Earlham College
Richmond, Ind. 47374
Tel: (317) 962-6561 Ext. 226

AREAS OF INTEREST: Chemistry; physics; botany; zoology; natural sciences; social sciences; philosophy; psychology; religion; history; languages; fine arts; geology and biology of Wayne County, Indiana and eastern Indiana, and non-Western areas of Japan and Southeast Asia; Quakerism.

HOLDINGS: 160,000 books and periodicals; 980 current periodical subscriptions; 24,000 reprints on animal behavior and ecology; 1,000 bibliographies; 8,000 U.S. Government publications; 13 newspaper subscriptions; 40 abstract journals; 50 reviews; 2,000 maps and charts; 5,300 reels of microfilm; 5,500 microcards; 5,000 slides; 63,000 museum and herbarium specimens, including rocks, minerals, birds, and mammals.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides bibliographic and literature-searching services; permits onsite reference.

EARTH SCIENCE LABORATORIES

see Commerce, Department of. Environmental Science Services Administration. Research Laboratories

EAST CAROLINA UNIVERSITY

Marine Resources and Environmental Studies Committee

0780 Department of Biology
East Carolina University
Greenville, N.C. 27834
Tel: (919) 758-3426

AREAS OF INTEREST: Productivity and dynamics of North Carolina estuaries and coastal waters.

HOLDINGS: 5,000 books; 50 periodical titles; 1,000 reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and reference services free; provides translation, duplication, and interlibrary loan services on fee basis.

EAST TEXAS STATE UNIVERSITY LIBRARY

0781 East Texas Station
Commerce, Tex. 75428
Tel: (214) 468-2272

AREAS OF INTEREST: Aerospace; agriculture; biology; botany; zoology; chemistry; earth science; astronomy; geology; hydrology and oceanography; meteorology; industrial education; physics; mathematics.

HOLDINGS: 420,000 volumes; 1,625 magazine subscriptions; 45 newspaper subscriptions; 66,642 pamphlets and clippings; 135,365 Federal documents; 321 geological charts, maps, and folios; 134,986 microforms of books, magazines, and newspapers.

PUBLICATIONS: *The East Texan* (biweekly); *The Locust* (yearbook); *Forthcoming* (literary magazine, irregular); *Abstracts of Master's and Doctoral Studies of East Texas State University* (irregular); *Ecumene* (geography periodical); brochures, leaflets.

INFORMATION SERVICES: Answers inquiries; provides reference services; makes interlibrary loans to scholars; permits onsite reference.

EASTERN NEW MEXICO UNIVERSITY

Film Library

0782 Eastern New Mexico University
Portales, N. Mex. 88130
Tel: (505) 736-6631 Ext. 234

AREAS OF INTEREST: Science films.

HOLDINGS: 5,000 16mm films.

PUBLICATIONS: Film rental catalog.

INFORMATION SERVICES: Provides consulting services on newer media, and demonstrations and lectures on all types of new media equipment and materials; rents films.

EASTMAN KODAK CO.

Department of Information Services

0783 Eastman Kodak Co.
Research Labs
Rochester, N.Y. 14650
Tel: (716) 458-1000 Ext. 2059
(716) 458-1000 Ext. 5261 (Research Library)

AREAS OF INTEREST: Photography, with emphasis on the scientific aspects; photographic materials; chemistry, particularly dyes and polymers; physics; mathematics; information sciences.

HOLDINGS: 40,000 books; 21,000 bound volumes of periodicals; 2,000 current subscriptions; 7,000 microforms; reports, abstracts, standards and specifications, reviews, bibliographies, pamphlets, reprints, publication lists.

PUBLICATIONS: *Abridged Scientific Publications* (annual).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides limited reference services; makes interlibrary loans; permits onsite use of collection by arrangement.

EATON YALE AND TOWNE INC.

Research Center Library

0784 Eaton Yale and Towne Inc.
26201 Northwestern Highway
Southfield, Mich. 48075
Tel: (313) 444-8000

AREAS OF INTEREST: Engineering for truck and off-highway components, materials handling and construction equipment, control systems, passenger car products, power transmissions, locks, and builders hardware; metallurgy; industrial engineering.

HOLDINGS: 3,500 books; 300 journals; 3,000 reports; patents, films, photos, data.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Provides reference services; lends materials (except internal reports).

ECONOMIC DEVELOPMENT ADMINISTRATION

see Commerce, Department of

ECONOMICS LABORATORY, INC.

Information Center

0785 Economics Laboratory, Inc.
Osborn Bldg.
St. Paul, Minn. 55102

Location:
840 Sibley Memorial Highway
St. Paul, Minn.
Tel: (612) 224-4678

AREAS OF INTEREST: Surfactants and detergents; cleaning procedures; sanitation; food processing; microbiology; enzymology; water pollution; metal corrosion; analytical chemistry.

HOLDINGS: 5,000 books; 425 journals; patents, data; *Chemical Abstracts* from 1926 to present.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides limited reference and literature-searching services; permits onsite use of collection; makes interlibrary loans.

EDISON ELECTRIC INSTITUTE

0786 750 Third Ave.
New York, N.Y. 10017
Tel: (212) 986-4100

AREAS OF INTEREST: Electricity; electric utilities; uses of energy; lighting; power; electric transportation.

HOLDINGS: Books, journals, reports, maps, charts, data.

PUBLICATIONS: *EEI Bulletin*; *Weekly Electrical Power Output*; *Farm Electrification*; *Quarterly Finance Report*; *Statistical Yearbook*; standards and specifications, reports, handbooks, proceedings. A catalog is provided free on request.

INFORMATION SERVICES: Answers inquiries (staff specialists are available to answer technical questions for those with a serious interest in the industry); provides reference services on any phase of the electric utility business, including technology, statistics, economics, history, and forecasts. The library is open to the public.

EDUCATIONAL FACILITIES LABORATORIES, INC.

0787 477 Madison Ave.
New York, N.Y. 10022
Tel: (212) 751-6214

AREAS OF INTEREST: Design and construction of educational facilities, including classrooms, laboratories, libraries, dormitories, auditoriums, gymnasiums, and other types of facilities.

HOLDINGS: Reports, photos, books, journals, slides, project records, standards and specifications, pamphlets, abstracts, indexes, preprints, reprints, bibliographies, clippings, tear sheets, architectural models of schools, data.

PUBLICATIONS: Pamphlets.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; lends photos of school buildings; permits onsite reference.

EDWIN COX ASSOCIATES AND COMMONWEALTH LABORATORY, INC.

0788 Chemists' Bldg.
2209 East Broad St.
Richmond, Va. 23223
Tel: (703) 648-8358

AREAS OF INTEREST: Chemistry; chemical engineering; mechanical engineering; manmade fiber chemistry processes (economic and business aspects); machine design and development; pharmaceutical and food chemistry; phosphorus and phosphatic chemicals; solid state physics; metals; mineralogy; pulp and paper; air pollution; fertilizers; X-ray diffraction analysis; electronic microscopy.

HOLDINGS: 3,000 books; 75 periodical titles (5-10 years accumulation); 2,500 project records; 3,000 pamphlets; 25,000 clippings; 125 bibliographies; preprints, reprints, tapes, motion pictures, photos, maps, charts, graphs, tables, reports, data.

PUBLICATIONS: Reprints of articles written by Company's scientists.

INFORMATION SERVICES: Answers inquiries; provides consulting services for fee; performs feasibility studies and functions as referee in laboratory analysis for Federal, State, and city government; permits onsite reference by request.

EG&G INTERNATIONAL, GEODYNE DIVISION

0789 151 Bear Hill Rd.
Waltham, Mass. 02154
Tel: (617) 899-3710

AREAS OF INTEREST: Underwater photographic systems; oceanographic acoustic systems, including side scan sonar and seismic profiling equipment; instruments and systems for measurement of ocean parameters; oceanographic buoys and accessories; data processing and evaluation of oceanographic data; systems for measurement of water quality parameters.

HOLDINGS: 5,000 instruments; about 2,000 types of pamphlets, forms, and literature.

PUBLICATIONS: *Davy Jones' Newsletter* (irregular); technical reports, data sheets.

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes referrals; prepares analyses and evaluations; permits onsite reference.

EKTACOM

see Fisher Berkeley Corp.

ELASTIC FABRIC MANUFACTURERS INSTITUTE, INC.

0790 P.O. Box 710
New London, Conn. 06320

Location:
105 Huntington St.
New London, Conn.
Tel: (203) 442-5889

AREAS OF INTEREST: Elastic braid, woven elastic, braided trimmings, and power net, including set standards and procedures and test characteristics.

HOLDINGS: Elastic fabric specimens, physical testing equipment, data compilations, technical reports, standards and specifications, periodicals, newsletters, reprints, pamphlets, clippings, press releases.

PUBLICATIONS: Data compilations, technical reports, standards and specifications, newsletter.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting and testing services. Services are primarily for Institute members, but may be provided to others, depending on the type of information sought.

ELECTRIC BOAT DIVISION TECHNICAL INFORMATION CENTER

see General Dynamics Corp.

ELECTRIC RAILROADERS' ASSOCIATION, INC.

Sprague Memorial Library

0791 Electric Railroaders' Association, Inc.
145 Greenwich St.
New York, N.Y. 10006
Tel: (212) 962-0627

AREAS OF INTEREST: Electric railroads; rapid transit; elevated railways; subways; street railways; interurbans; monorails (both current events and histories).

HOLDINGS: 4,000 books; 2,500 journals; 700 reports; films, photos, maps, charts, data; special collection of Public Utility and Railroad Commission Reports of the various States of the Union from the early 1900's.

PUBLICATIONS: *Headlights* (monthly); data handbook, bibliography, journals.

INFORMATION SERVICES: Provides reference and consulting services; permits onsite research by request.

ELECTROMAGNETIC COMPATIBILITY ANALYSIS CENTER

see IIT Research Institute

ELECTROMAGNETIC METROLOGY INFORMATION CENTER

see Commerce, Department of. National Bureau of Standards

ELECTRONIC COMMUNICATIONS, INC.

Engineering Library

0792 Electronic Communications, Inc.
P.O. Box 12248
St. Petersburg, Fla. 33733

Location:
1501 72d St., North
St. Petersburg, Fla.
Tel: (813) 347-1121

AREAS OF INTEREST: Systems development; voice communications; electronic countermeasures; computers (special purpose); electromechanical devices (actuators); infrared devices; microwave devices; space electronics.

HOLDINGS: 3,000 books; 150 periodical titles; abstracts, bibliographies, catalogs, pamphlets, technical reports.

PUBLICATIONS: Acquisitions list.

INFORMATION SERVICES: Answers brief inquiries; provides short lists of literature citations in response to specific inquiries; makes interlibrary loans to industrial libraries in the vicinity; permits onsite reference. Security requirements must be satisfied for access to classified information.

ELECTRONIC INDUSTRIES ASSOCIATION

Engineering Department

0793 Electronic Industries Association
2001 Eye St. NW.
Washington, D.C. 20006
Tel: (202) 659-2200

AREAS OF INTEREST: Technical standards for electronic components, equipment, and systems; electron tubes and semiconductor devices; marketing of electronics equipment.

HOLDINGS: 75 technical publications; 225 standards.

PUBLICATIONS: *Engineering Monthly Report* (status report on standards); *Index of EIA Standards & Publications* (a free price list of publications); technical reports, conference proceedings.

INFORMATION SERVICES: Answers inquiries; provides reference services; provides statistical services for fee (no charge to nonmembers who supply data for industrial surveys).

Marketing Services Department

0794 Electronic Industries Association
2001 Eye St. NW.
Washington, D.C. 20006
Tel: (202) 659-2200

AREAS OF INTEREST: Production, inventories, markets, and marketing of domestic and international electronic products, components, and materials.

HOLDINGS: Books, journals, industry reports, international reports, and data applicable to specific products and areas.

PUBLICATIONS: *Electronic Industries Yearbook* (annual analysis of industry size and trends in sales of consumer, industrial, Government, and component products; data covers products such as television sets, radios, phonographs, tape recorders, computers, industrial controls, testing equipment, electronics for space and defense technologies, electron tubes, semiconductors, and parts); *Electronic Trends--USA* (monthly statistical and economic narrative of trends in the electronic industries); *Electronic Trends--International* (monthly statistical report covering U.S. imports and exports of electronic products and components by country of origin and destination; analysis of Japanese exports to the United States; a special analysis of the electronics industry in a different country each month, including production, exports, imports, and apparent consumption of electronic products and components; and other pertinent international market data as available); annual, quarterly, and monthly statistical ports covering production and sales of over 100 different categories electronic products and components. Publications are available by subscription.

INFORMATION SERVICES: Answers inquiries; provides reference to other sources if inquiry is outside the scope of the EIA; provides consultation on trends and outlook for the industry and its various segments; permits onsite reference of detailed industry statistical reports.

ELGIN NATIONAL WATCH CO.

Watch Division

0795 Elgin National Watch Co.
107 National St.
Elgin, Ill. 60120
Tel: (312) 742-3300

AREAS OF INTEREST: History, design, construction, and manufacture of clocks and watches.

HOLDINGS: 100,000 patent abstracts on horological devices from 1875 to date; technical reports, periodicals.

INFORMATION SERVICES: Answers inquiries; provides consulting services; permits onsite reference.

EMBRY-RIDDLE AERONAUTICAL INSTITUTE

0796 P.O. Box 2411
Daytona Beach, Fla. 32015
Tel: (904) 252-5561

AREAS OF INTEREST: Aviation education, including aeronautical engineering, aeronautical engineering technology, aviation management, aircraft maintenance engineering technology, applied mathematics, airframe and powerplant mechanic training, and professional pilot training; subsonic aerodynamics; aerospace systems research and development; aerospace vehicle design.

HOLDINGS: 15,000 books; 150 periodical titles; trade journals, house organs, and general publications of the major airlines; FAA publications; CAB regulations; NASA documents and reports; special collection of Russian language technical books on aerospace subjects.

PUBLICATIONS: *Embry-Riddle Aeronautical Institute Bulletin* (annual); reports, specialized curriculums.

INFORMATION SERVICES: Answers inquiries; provides consulting services; provides duplication services for fee; makes referrals; makes interlibrary loans.

Facilities include a 150 mph wind tunnel with 3x4 ft. test section.

EMERY INDUSTRIES, INC.

Research Library

0797 Emery Industries, Inc.
4900 Este Ave.
Cincinnati, Ohio 45232
Tel: (513) 242-2773

AREAS OF INTEREST: Chemical technology of fats, oils, and fatty acids; organic chemistry; chemical engineering; ozone; polymerizing of unsaturated acids for use in urethane foams, corrosion inhibitors, and surface-coating resins; use of fatty acids and derivatives in plastics, synthetic detergents and emulsifiers, lubricants and greases, textiles, paint and protective coatings, cosmetics, toiletries, drugs, and pharmaceuticals; testing methods; patents.

HOLDINGS: 5,000 books and journals; complete sets of *Chemical Abstracts*, *Chemical Review*, and *Analytical Chemistry*; microcards of U.S. chemical patents (1950 to 1966); microfilm of U.S. chemical patents; Government bulletins, commercial literature.

PUBLICATIONS: Bulletins; catalogs of Company products and processes.

INFORMATION SERVICES: Makes interlibrary loans; provides restricted duplication services; provides other services primarily to Company personnel and customers.

EMORY UNIVERSITY

Science Library

0798 Emory University
Atlanta, Ga. 30322
Tel: (404) 377-2411 Ext. 7686

AREAS OF INTEREST: Physics; organic and physical chemistry; geology; mathematics; biology; cytology; genetics; psychology.

HOLDINGS: Books, journals.

INFORMATION SERVICES: Makes interlibrary loans.

ENGELHARD MINERALS AND CHEMICALS CORP.

Research and Development

0799 Engelhard Minerals and Chemicals Corp.
497 Delancy St.
Newark, N.J. 07105
Tel: (201) 242-2700

AREAS OF INTEREST: Platinum group metals, including platinum, palladium, rhodium, ruthenium, iridium, and osmium; gold and silver; industrial diamonds.

HOLDINGS: 13,000 books; 250 journals; reports, patents, films, photos, data, chemical abstracts on microfilm.

PUBLICATIONS: *Engelhard Industries Technical Bulletin* (quarterly); state-of-the-art review, index, bibliography, translations, reports, patent abstracts, annual report.

INFORMATION SERVICES: Provides reference, translating, and duplication services; makes interlibrary loans; permits onsite reference.

Facilities include computer center housing GE 4020.

ENGINEER AGENCY FOR RESOURCES INVENTORIES

see Army, Department of the. Office of the Chief of Engineers

ENGINEER ASSOCIATES, INC.

0800 P.O. Box 3135
Evansville, Ind. 47710

Location:
425 South 3d Ave.
Evansville, Ind.
Tel: (812) 424-2936

AREAS OF INTEREST: Concrete; soils; engineering of soils and concrete testing equipment.

HOLDINGS: Books, photos, slides, maps, charts, project records, graphs, tables, reports, standards and specifications, periodicals, publication lists, booklets, data.

PUBLICATIONS: Brochure.

INFORMATION SERVICES: Answers brief inquiries; provides consulting services for fee; permits onsite use of collection. The soils laboratory identifies soil samples and performs tests (Proctor density--Atterburg limits).

ENGINEERING-SCIENCE, INC.

0801 150 East Foothill Blvd.
Arcadia, Calif. 91006
Tel: (213) 359-9381

AREAS OF INTEREST: Engineering design and research in water resources, supply, and treatment; solid wastes engineering; air pollution control; sanitary/environmental health engineering.

HOLDINGS: Periodicals, reports, maps, charts, standards and specifications, slides, photos.

PUBLICATIONS: Newsletter (quarterly); reports on all major projects, brochure.

INFORMATION SERVICES: Answers inquiries; provides consulting services for fee; provides literature-searching services; permits onsite use of collection.

ENGINEERING SOCIETIES LIBRARY

0802 345 East 47th St.
New York, N.Y. 10017
Tel: (212) 752-6800

AREAS OF INTEREST: Engineering and related physical sciences, including chemical, civil, electrical and electronic, marine and naval, illuminating, industrial, and mechanical engineering; aerospace sciences; rockets and missiles; nuclear technology; metallurgy and metallography welding; mining; shipbuilding; petroleum technology; computers; instrumentation; engineering materials; geology; geophysics; history of technology; engineering as a profession.

HOLDINGS: 225,000 volumes; 4,000 serial titles; 10,000 maps; 60 films of research data in fluid mechanics; 20,000 unpublished papers of engineering societies; bibliographies, reports.

PUBLICATIONS: *Classed Subject Catalog of the Library* (16 vols., five annual supplements); annotated bibliographies (irregular).

INFORMATION SERVICES: Provides reference services; lends books to member societies; provides literature-searching and duplication services for fee; lends films.

ENGINEERS' COUNCIL FOR PROFESSIONAL DEVELOPMENT, INC.

0803 345 East 47th St.
New York, N.Y. 10017
Tel: (212) 752-6800

AREAS OF INTEREST: Engineering education; engineering technician education; accreditation by curricula through first professional degree for engineering; accreditation by curricula for 2-year and 4-year programs of engineering technology; guidance for students grades K through 12 and for engineering students; professional development of engineers; engineering ethics; continuing education for practicing engineers.

HOLDINGS: Literature and reports on accreditation and guidance activities.

PUBLICATIONS: Pamphlets, reprints, books, annual report. A publications list is available.

INFORMATION SERVICES: Answers inquiries; permits onsite reference to nonconfidential information.

ENGINEERS JOINT COUNCIL

0804 345 East 47th St.
New York, N.Y. 10017
Tel: (212) 752-6800

AREAS OF INTEREST: Learning resources for engineers, scientists, and managers; engineering societies; engineering manpower supply and demand data; engineering salaries; selective service policies; standardized vocabulary reference for engineering and scientific terms.

PUBLICATIONS: *Engineer* (bimonthly magazine); *Learning Resources* (directory issued 3 times a year); *Thesaurus of Engineering and Scientific Terms* (1967); *Professional Income of Engineers, Salaries and Income of Engineering Teachers, Salaries of Engineering Technicians, Demand for Engineers and*

Technicians (all biennial); other directories, reports, papers, survey results, bulletins, handbooks, and guidebooks. A publications catalog is available.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services.

ENO FOUNDATION FOR TRANSPORTATION INC.

0805 P.O. Box 55
Saugatuck, Conn. 06880

Location:

270 Saugatuck Ave.
Saugatuck, Conn.
Tel: (203) 227-4852

AREAS OF INTEREST: Highway traffic and transportation and related subjects.

HOLDINGS: Technical reports, reviews, books, periodicals, publication lists, bibliographies, pamphlets.

PUBLICATIONS: *Traffic Quarterly* (January, April, July, October); occasional monographs.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; disseminates publications on request to individuals and organizations having practical application for them; permits onsite use of collection.

ENSANIAN PHYSICOCHEMICAL INSTITUTE

0806 P.O. Box 98
Eldred, Pa. 16731
Tel: (814) 225-3296

AREAS OF INTEREST: Gravitation and its relation to chemistry, physics, biology, and engineering; utilization of weightlessness and gravitational variations for unique chemical synthesis and manufacturing; cosmology and organic evolution (the origin of life); extraterrestrial civilizations; biophysics; health sciences (artificial heart research, pollution control, drug action); structure of water; materials science (energy dissipation mechanisms in solids, development of new materials); physical chemistry (electrochemistry, interfacial phenomena, reaction kinetics, spectroscopy, ultrasonics, photochemistry, nonequilibrium thermodynamics); energy conversion (batteries, control devices); fluid dynamics; scientific instruments for industry and education (characterization of surface chemistry and welds, vapor detection, gravity research, product assurance and quality control, energy conversion).

HOLDINGS: 615 books; 36 periodical titles; 3,200 reports.

PUBLICATIONS: *Journal of the Ensanian Physicochemical Institute* (quarterly); *Annual Summary of Progress in Gravitation Sciences*; *Introduction to Gravitation Chemistry*; technical news bulletins, seminar proceedings.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and consulting services; makes interlibrary loans; permits onsite use of collection; conducts conferences and workshops in gravitation chemistry. The Institute operates the Information Center for Gravitation Chemistry, which collects, catalogs, and distributes information on the inherent nature of the gravitational interaction, the detection of gravity waves, the role of gravity in organic evolution, chemical synthesis (generation of thunderstorm electricity), the practical utilization of weightlessness and gravitational variations (gravitational shock phenomena), and the history of antigravitation concepts.

ENVIRONMENTAL HEALTH SERVICE

see Health, Education, and Welfare, Department of. Public Health Service

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION

see Commerce, Department of

ESB INC.

Carl F. Norberg Research Center Library

0807 ESB Inc.
P.O. Box 336
Yardley, Pa. 19067

Location:

19 West College Ave.
Yardley, Pa.
Tel: (215) 493-3601

AREAS OF INTEREST: Batteries; chemistry, including electrochemistry, physical, analytical, and polymer chemistry; physics; metallurgy; crystallography.

HOLDINGS: 7,000 books; 150 periodical titles; 5,000 reports.

PUBLICATIONS: Acquisitions bulletin of reports and books.

INFORMATION SERVICES: Makes interlibrary loans.

ESSO PRODUCTION RESEARCH CO.

Research Library

0808 Esso Production Research Co.
P.O. Box 2189
Houston, Tex. 77001

Location:
3120 Buffalo Speedway
Houston, Tex.
Tel: (713) 622-4222

AREAS OF INTEREST: Geology; geophysics; chemistry; physics; mathematics; chemical engineering; civil engineering; petroleum engineering; mechanical engineering; operations research; statistics; business management.

HOLDINGS: Books, journals, reports, maps, charts, data.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference by advance arrangement.

ETHYL CORP.

Research and Development Division Library

0809 Library, R&D Division
Ethyl Corp.
P.O. Box 2189
Richmond, Va. 23217
Tel: (703) 644-6081 Ext. 492

AREAS OF INTEREST: Wood; forestry; organic chemistry; fibers; synthetic resins and coatings; pulp and paper; process control; packaging; kraft paper; filter paper; paperboard and corrugated board; sulfate pulp and processes; air and water pollution control.

HOLDINGS: 1,000 books; 100 periodicals; reports, pamphlets, preprints, reprints, bibliographies, abstracts, indexes, standards and specifications, internal project records, microforms (Institute of Paper Chemistry microcard patent service); data. Series publications include Institute of Paper Chemistry, Technical Association of the Pulp and Paper Industry, National Council for Air and Stream Improvement, and American Paper Institute.

INFORMATION SERVICES: Permits onsite reference; lends some material.

EVAPORATED MILK ASSOCIATION

0810 910 17th St. NW.
Washington, D.C. 20006
Tel: (202) 223-6820

AREAS OF INTEREST: Production technology of evaporated milk; human nutrition and evaporated milk.

HOLDINGS: Films, photos, project records, periodical titles.

PUBLICATIONS: *Information Bulletin* (monthly); *Statistical Bulletin* (quarterly).

INFORMATION SERVICES: Answers brief inquiries; makes referrals.

EXECUTIVE OFFICE OF THE PRESIDENT

National Aeronautics and Space Council

0811 Executive Office of the President
17th St. and Pennsylvania Ave. NW.
Washington, D.C. 20502
Tel: (202) 395-3300

The Council, consisting of the Vice President of the U.S., the Secretaries of State and Defense, the Administrator of the National Aeronautics and Space Administration, and the Chairman of the Atomic Energy Commission, advises and assists the President in developing the national space and aeronautics programs.

AREAS OF INTEREST: National policies, plans, and programs for aeronautical and space activities; coordination of such policies, plans, and programs among the departments and agencies involved.

PUBLICATIONS: *Aeronautics and Space Report* (annual).

INFORMATION SERVICES: Answers inquiries and releases statements and speeches.

National Council on Marine Resources and Engineering Development

0812 Executive Office of the President
Federal Office Bldg. No. 7, Room 6013
726 Jackson Pl. NW.
Washington, D.C. 20500
Tel: (202) 395-3104

AREAS OF INTEREST: Planning and management in marine science and technology by promoting cooperation among Federal agencies; advising the President regarding programs affecting more than one agency; increasing understanding of the marine environment; encouragement of private investment enterprise; advancement of marine science education and training, improved technology, effective utilization of marine scientific and engineering resources, and international cooperation with other nations in marine science activities.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Office of Emergency Planning

National Resource Analysis Center

0813 Office of Emergency Planning
Executive Office Bldg. Annex
17th and F Sts. NW.
Washington, D.C. 20504
Tel: (202) 395-5150

AREAS OF INTEREST: Economics, including defense-impact analyses, postattack goals, and emergency controls; national resources, including supply-requirements analyses, priorities and allocation policies, emergency central programming, and stockpile policy for strategic and critical materials; emergency operations, including development of wartime agencies, resource management guidance, and contingency plans and procedures; computer applications, including data collection, simulations, projections, and mathematical computations for systems analyses.

HOLDINGS: A data base of 4,000,000 resource records; several thousand maps, charts, books, stockpile records, mobilization plans, and economic stabilization plans.

PUBLICATIONS: None for general distribution. The Center contributes to the Annual Report of the Activities of the Joint Committee on Defense Production (U.S. Congress), submits semiannual Stockpile Report to Congress, and prepares numerous emergency planning orders, circulars, technical reports, and a monthly oil import price survey.

INFORMATION SERVICES: Provides resource data and evaluations and resource management guidance only to Federal agencies and to State and local governments for emergency planning and readiness purposes.

For the National Resource Analysis Center, the Mathematics and Computation Laboratory operates the CDC 3600 and UNIVAC 1108 computer systems with remote access in Washington, D.C., Charlottesville, Va., and Berkeley, Calif.

Office of Science and Technology

0814 Executive Office Bldg.
17th St. and Pennsylvania Ave. NW.
Washington, D.C. 20506
Tel: (202) 395-3544

This Office provides advisory assistance and staff support to the President in developing policies and evaluating programs to assure that science and technology are used most effectively in the interest of national security and the general welfare. It also provides staff support for the President's Science Advisory Committee and for the Federal Council for Science and Technology.

AREAS OF INTEREST: National policies, plans, and programs in science and technology; interagency planning, administration, and coordination of Federal research and development programs.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries dealing with national policies and plans, but not specific technical inquiries.

EXPANDED SHALE, CLAY, AND SLATE INSTITUTE

0815 National Press Bldg.
14th and F Sts. NW.
Washington, D.C. 20004
Tel: (202) 783-1669

AREAS OF INTEREST: Uses of rotary kiln lightweight shale, clay, or slate aggregate; structural lightweight concrete; concrete masonry; insulation; physical properties of concrete materials; design data as applied to structures; specifications and standards for the concrete industry.

PUBLICATIONS: *Concrete Facts* (quarterly news journal); *Lightweight Concrete Information Sheet* (irregular); *Concrete Masonry Manual*; *Bridge Deck Survey* (tabulation of statistics on 150 bridges); *Lightweight Aggregate for Flexible Pavement: Story of the Selma* (report of an investigation on the condition and physical properties of expanded shale reinforced concrete after 34 years of exposure to sea water); technical reports, journal articles.

INFORMATION SERVICES: Answers inquiries; disseminates single copies of publications free.

EXPLORERS CLUB

0816 46 East 70th St.
New York, N.Y. 10021
Tel: (212) 628-8383

AREAS OF INTEREST: Exploration, with particular emphasis on scientific disciplines and related subjects, i.e., geography, natural history, ornithology, oceanography, ethnology, anthropology, the Arctic, astronomy, glaciology, paleontology, meteorology, entomology, zoology, archaeology, botany, ichthyology, medicine, and maps.

HOLDINGS: The James B. Ford Memorial Library, containing over 25,000 items, including some 18,000 books and pamphlets, 3,000 bound periodicals (of which over 140 are current), films, maps, several thousand manuscripts, and ephemera. The Library owns many rare and valuable items, the earliest printed title dating from 1476. Although all phases of exploration are covered, the Library is particularly strong in Arctic materials, including the personal libraries of H. B. Kane and Admiral Robert E. Peary. The early exploration of Africa is also well documented and includes 200 manuscript pages of letters written by Henry M. Stanley while searching for Dr. Livingstone.

PUBLICATIONS: *Explorers Journal* (quarterly); *Expeditions and Field Projects* (annual); *Explorers Club News* (5 times a year). The following are to be published: *History of The Explorers Club*; *Library Catalog of The Explorers Club*; *Explorers Cookbook*; and *Told At The Explorers Club* (revised edition).

INFORMATION SERVICES: Provides reference and consulting services; makes interlibrary loans; permits onsite use of collection by responsible researchers by appointment; provides international information service on field research projects.

FACTORY INSURANCE ASSOCIATION

0817 85 Woodland St.
Hartford, Conn. 06102
Tel: (203) 525-2601

AREAS OF INTEREST: Industrial loss prevention engineering, including research, design, evaluation, and testing of methods and materials intended to prevent and protect buildings, equipment, and stock against fire, explosion, and windstorm.

HOLDINGS: Motion pictures, photos, slides, maps, charts, graphs, tables, technical reports, books, periodicals, abstracts and indexes, data compilations, samples of industrial ducts.

PUBLICATIONS: *Sentinel* (monthly magazine); newsletter (disseminated to member companies, agents, and brokers, and insurance service organizations); standards and specifications, pamphlets, publications list.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides limited bibliographic services; provides consulting services and testing of explosive properties of samples of industrial dust to member companies and policyholders, and their agents or brokers; permits onsite use of collection.

THE FAIRBANKS MUSEUM AND PLANETARIUM

0818 Main St.
St. Johnsbury, Vt. 05819
Tel: (802) 748-3413

AREAS OF INTEREST: Minerals; ethnology; meteorology; botany; astronomy; ornithology.

HOLDINGS: 1,000 books; complete weather records since 1892; records of first dates of blooming of local wildflowers since 1890; records of arrivals and departures of local birds since 1890.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services; permits onsite reference. Schools from outside the Museum's tax district are charged fees for planetarium lectures and other lectures.

FAIRCHILD CAMERA AND INSTRUMENT CORP.

0819 300 Robbins Lane
Syosset, Long Island, N.Y. 11791
Tel: (516) 931-4500

AREAS OF INTEREST: Aerial photography; photogrammetry; data processing of aerial photography information; camera phototransmission systems, cables, precision wirewound and conductive plastic potentiometers; electron tubes; cathode ray tubes; diodes and fiber-optic faceplate tubes; electronic laboratory test instruments; cryogenics; silicon transistors and integrated circuits; flight control systems; mechanical timing devices; magnetic tape recorders; amplifiers; typesetting equipment; printing presses; audiovisual machines; photo-instrumentation.

HOLDINGS: 4,000 books; 1,000 reports; 4,000 electronic devices; 150 magnetic tapes; 20 films; 1,000 photos; 2,500 slides; 400 maps and charts; 200

posters; 600 project records; 700 standards and specifications; 550 reprints; 700 pamphlets; abstracts, bibliographies, clippings, publication lists, press releases.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides bibliographic services; provides consulting services for fee; lends films; permits onsite reference.

FAIRCHILD HILLER

Republic Aviation Division Engineering Library

0820 Fairchild Hiller
Conklin St.
Farmingdale, N.Y. 11735
Tel: (516) 531-3497

AREAS OF INTEREST: Aerospace sciences; aviation aspects of biological and medical sciences, chemistry, communications, detection and countermeasures, astronomy, electrical and electronic engineering, fuels, guided missiles, materials and metallurgy, mathematics and data processing, mechanical and structural engineering, military sciences, navigation, nuclear science and technology, ordnance, physics, and human factors and human engineering; library automation.

HOLDINGS: 20,000 books; 450 journal titles; 150,000 reports; NASA technical reports, microforms (400,000 microfiche), and NASA's mechanized information retrieval system.

INFORMATION SERVICES: Permits onsite reference by request; makes interlibrary loans of unclassified material.

FALSTAFF BREWING CORP.

Quality Control Department Library

0821 Falstaff Brewing Corp.
1920 Shenandoah Ave.
St. Louis, Mo. 63104
Tel: (314) 652-4300

AREAS OF INTEREST: Brewing; malting; chemistry; microbiology; packaging.

HOLDINGS: 1,100 books; 100 journals.

INFORMATION SERVICES: Answers inquiries; provides bibliographic services; permits onsite reference.

FARGO CO.

0822 1162 Bryant St.
San Francisco, Calif. 94103
Tel: (415) 621-4471

AREAS OF INTEREST: Law enforcement and intelligence support systems; electronic and other police equipment, including briefcase tape recorders, microphones, subminiaturized transmitting devices, fingerprint kits, ultraviolet detection devices, and driver aptitude test equipment.

HOLDINGS: 85 various devices.

INFORMATION SERVICES: Answers inquiries; provides consulting services; conducts seminars in the use of intelligence equipment. Services, with rare exceptions, are available only to officials of Federal, State, and local government law enforcement agencies.

FARM AND INDUSTRIAL EQUIPMENT INSTITUTE

0823 410 North Michigan Ave.
Chicago, Ill. 60611
Tel: (312) 321-1470

AREAS OF INTEREST: Farm and industrial machinery and equipment, including tractors, combines, mowers, discs, harvesting machinery, balers, power sprayers and dusters, hand sprayers and dusters, industrial loaders, backhoes and other materials handling or landscape maintenance equipment, milking machines, poultry equipment, livestock equipment, barn equipment such as cleaners, feeders and silo unloaders, and crop dryers; farm safety; soil and water conservation; foreign trade.

HOLDINGS: Reports, data.

PUBLICATIONS: *The FIEI Letter* (quarterly); *Industrial Equipment Specification Definitions* and *The Modern Way to Efficient Milking* (booklets); membership directory (annual); retail sales reports (monthly).

INFORMATION SERVICES: Answers inquiries; provides reference and consulting services.

FARMERS HOME ADMINISTRATION

see Agriculture, Department of

FARREL CORP.

0824 25 Main St.
Ansonia, Conn. 06401
Tel: (203) 734-3331

AREAS OF INTEREST: Chilled, alloy chilled, and high test iron; steel; heavy machine tools and equipment for processing of sugar, plastics, rubber, paper, chemical, and other products.

HOLDINGS: Books, journals, reports, patents, films, photos, maps, charts, data.

PUBLICATIONS: Papers, treatises.

INFORMATION SERVICES: Answers inquiries; permits onsite use of collection by request.

THE FATTY ACID PRODUCERS' COUNCIL

0825 485 Madison Ave.
New York, N.Y. 10022
Tel: (212) 751-6080

AREAS OF INTEREST: Fatty acids, including production and raw materials.

HOLDINGS: Statistical data.

PUBLICATIONS: Abstracts.

INFORMATION SERVICES: Answers inquiries.

FEDERAL AVIATION ADMINISTRATION

see Transportation, Department of

FEDERAL COMMITTEE ON RESEARCH NATURAL AREAS

0826 Department of the Interior, Room 2745
18th and C Sts. NW.
Washington, D.C. 20240
Tel: (202) 343-8860

AREAS OF INTEREST: Natural areas on Federal Government-owned lands that have been designated by the administering agencies as research natural areas, classified according to the geological and ecological types represented in the areas.

PUBLICATIONS: *Research Natural Areas on Lands of the United States of America* (directory, 1968).

INFORMATION SERVICES: Answers inquiries (inquiries about specific areas are referred to the administering agency for reply). Services are available to anyone, but are primarily for universities, research organizations, and others who need to find natural areas of special character as sites for scientific study.

FEDERAL COMMUNICATIONS COMMISSION

Broadcast Bureau

0827 Federal Communications Commission
1919 M St. NW., Room 314
Washington, D.C. 20554
Tel: (202) 632-6460

AREAS OF INTEREST: Licensing and regulation of radio and television stations; network studies; broadcast facilities; broadcasting rules, standards, and complaints.

PUBLICATIONS: *Broadcast Primer*; *Broadcast Application and Hearing Procedures*; other pamphlets. (All FCC publications are distributed by the FCC Office of Reports and Information.)

INFORMATION SERVICES: Answers inquiries; makes referrals.

Common Carrier Bureau

0828 Federal Communications Commission
1919 M St. NW., Room 514
Washington, D.C. 20554
Tel: (202) 632-6910

AREAS OF INTEREST: Licensing of radio for common carrier communication facilities, including that via satellite, and of wire and cable communication facilities for interstate and foreign services; regulation of common carrier services, rates, and accounting.

PUBLICATIONS: *The Common Carrier Primer*; *FCC Statistics of Communications Common Carriers*; other pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals. Information is available concerning tariffs, accounting methods, operating practices, services, and facilities of communication common carriers applicable to interstate and foreign communications services, and financial and operating data of carriers providing such services.

Field Engineering Bureau

0829 Federal Communications Commission
1919 M St. NW., Room 734
Washington, D.C. 20554
Tel: (202) 632-6980

AREAS OF INTEREST: Inspection of non-Government radio stations of all types to insure that FCC technical standards are being complied with; investigation of illegal radio operations and assistance in prosecution of violators; surveillance of the radio spectrum around the clock to see that radio transmissions meet technical requirements; detection of unlicensed or nonconforming transmissions, and tracing and eliminating interference; participation in the National Search and Rescue program by furnishing direction finder "fixes" on aircraft and ships in distress.

PUBLICATIONS: Study guides for persons preparing for radio operator license examinations; information bulletins describing certain phases of the Bureau's services.

INFORMATION SERVICES: Answers inquiries; makes referrals; participates in educational and assistance programs in cooperation with radio licensee associations and civic groups.

Library Division

0830 Office of the Secretary
Federal Communications Commission
1919 M St. NW., Room 639
Washington, D.C. 20554
Tel: (202) 632-7100

AREAS OF INTEREST: Telecommunications (engineering and technology, law, economics); radio; telephony; telegraphy; television; communications regulation.

HOLDINGS: Books, journals, pamphlets, newsletters, reprints, standards, clippings, publication lists, bibliographies, legislative histories, case history file, graphs, charts. (The technical report collection is maintained by the Research Division, Office of Chief Engineer.)

PUBLICATIONS: Accessions list (monthly).

INFORMATION SERVICES: Prepares bibliographies; makes interlibrary loans; permits onsite reference, except for classified documents.

Office of Chief Engineer

0831 Federal Communications Commission
1919 M St. NW., Room 714
Washington, D.C. 20554
Tel: (202) 632-7060

AREAS OF INTEREST: Regulatory aspects of radio, television, telephone, telegraph, and electronic equipment and techniques; wave propagation; radio interference; frequency allocations and assignments; equipment type approval, type acceptance, and standardization; licensing of experimental radio stations.

HOLDINGS: The FCC technical report collection and national files of frequency assignments to the non-Government radio services.

PUBLICATIONS: Technical reports, information bulletins, lists of frequency assignments to non-Government radio services, instructions, lists of radio equipment acceptable for licensing in the various services.

INFORMATION SERVICES: Answers inquiries; makes referrals. Inquiries regarding type of approval of electronic equipment should be directed to the Laboratory Division, Office of Chief Engineer, Federal Communications Commission, P.O. Box 40, Laurel, Md. 20810, *tel:*(301) 725-1585. All other inquiries should be directed to the Office of Chief Engineer in Washington, D. C.

Safety and Special Radio Services Bureau

0832 Federal Communications Commission
1919 M St. NW., Room 402
Washington, D.C. 20554
Tel: (202) 632-6940

AREAS OF INTEREST: Developing, regulating, and licensing a large variety of radio services in the following categories: aviation (aircraft and ground, including Civil Air Patrol); marine (ship and coastal); public safety (police, fire, local government, highway maintenance, forestry conservation, special emergency, State guard); industrial (business, power, petroleum, manufacturers, forest products, industrial radiolocation, motion picture, relay press, telephone maintenance); land transportation (railroad, taxicab, automobile emergency, passenger and cargo motor carrier); public fixed stations in Alaska; disaster communication; amateur and citizens communication; and, in cooperation with the Field Engineering Bureau, implementing provisions of laws and treaties covering the compulsory use of radio for the safety of life at sea.

HOLDINGS: Applications and related documents required for initial licensing and renewal of stations connected with all the above radio services.

PUBLICATIONS: Volumes IV, V, and VI of the *Federal Communications Commission Rules and Regulations* containing Parts 81-99; *Federal Communications Commission Reports*; informational bulletins and pamphlets including: *Safety and Special Radio Services* (Information Bulletin No. 11-S), *Citizen Radio Service, How to Use CB Radio* (booklet), *Use of*

Citizens Radio by Telephone Answering Services and Similar Organizations, Citizens Radio Service--Selecting Class C and Class D Station Equipment, Aircraft Radio Station, Aeronautical Advisory Stations, Aeronautical Public Service Stations, Amateur Radio Service, Amateur Radio Operation Away From the Licensed Location, International Amateur Radiocommunication, Assignment of Amateur Radio Station Call Signs, Renewal of Amateur Radio Licenses, Reciprocal Amateur Operation, Land Transportation Radio Services, Industrial Radio Services, Use of the Same Transmitting Equipment by More Than One Station Licensee in the Public Safety, Industrial and Land Transportation Radio Services, Ship Radiotelephone and Radar, Public Safety Radio Services, Requirements for Construction of Antenna Towers, Study Questions for Amateur Novice Class Examination, Study Questions for Amateur Radio Extra Class Examination, Study Questions for Amateur Radio Advanced Class Examination, Study Questions for Amateur Radio General Class Examination, Mutual Recognition of Certain Mobile and Amateur Radio Licenses Issued by the United States or Canada, Caution--Avoid a Violation--Novice Licensees, and *Notice to Licensees and Operators of and Mobile Radio Stations*.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides duplication services at moderate fee; permits onsite reference.

FEDERAL FIELD COMMITTEE FOR DEVELOPMENT PLANNING IN ALASKA

0833 632 Sixth Ave., Suite 400
Anchorage, Alaska 99501
Tel: (907) 277-8611

This Committee was created to develop coordinated plans for Federal programs that contribute to the economic and resources development in Alaska and to recommend appropriate action by the Federal Government.

AREAS OF INTEREST: Economic and resources development in Alaska.

HOLDINGS: 500 publications dealing with various phases of economic and resource development planning.

PUBLICATIONS: Various reports, papers, and studies relating to Alaska (a bibliography which includes many of the Committee's publications is available).

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services; permits onsite use of literature collection.

FEDERAL FIRE COUNCIL

0834 4305 General Services Administration Bldg.
19th and F Sts. NW.
Washington, D.C. 20405
Tel: (202) 343-2453

The Council, which was established by Executive order, serves as an official advisory agency in matters relating to the protection of Federal employees and property from fire.

AREAS OF INTEREST: Fire safety, including fire prevention, fire protection, and firefighting.

HOLDINGS: Special literature section (over 7,000 items) on fire safety matters maintained by the Council in the General Services Administration's general library; films and slides.

PUBLICATIONS: Pamphlets, bibliographies, recommended practices, newsletter, research digest reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services. Services are oriented toward Government personnel; the general public is served as resources permit.

FEDERAL HIGHWAY ADMINISTRATION

see Transportation, Department of

FEDERAL MARITIME COMMISSION

Federal Maritime Commission Library

0835 1321 H St. NW.
Washington, D.C. 20573
Tel: (202) 386-6401

AREAS OF INTEREST: Shipping industry; regulation of common carriers by water.

HOLDINGS: 3,500 volumes, with emphasis on legal reference materials.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference.

FEDERAL PACIFIC ELECTRIC CO.

Cornell Dubilier Electronics Division Technical Library

0836 Federal Pacific Electric Co.
921 Providence Highway
Norwood, Mass. 02062
Tel: (617) 762-2620

AREAS OF INTEREST: Electronics; physics; chemistry; vacuum technology; indoor and outdoor electrical components.

HOLDINGS: Books, periodicals, project records, reports, standards, reviews, abstracts, newsletters, reprints, publication lists, bibliographies, pamphlets, data.

PUBLICATIONS: Newsletter, accessions list, project records.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; makes interlibrary loans.

FEDERAL POWER COMMISSION

Library

0837 Federal Power Commission
441 G St. NW., Room 2916
Washington, D.C. 20426
Tel: (202) 386-5191

AREAS OF INTEREST: Electric power production and distribution; law; management; mineral resources, particularly petroleum and natural gas; public utility valuation, depreciation, and rate structures; water power; hydroelectric power projects; electric and gas engineering; atomic energy; economics; accounting; air pollution and water pollution.

HOLDINGS: Books, journals, technical reports, legislative histories pertinent to Federal Power Commission jurisdiction.

INFORMATION SERVICES: Permits onsite reference by researchers by special permission of the librarian.

Office of Public Information

0838 Federal Power Commission
441 G St. NW.
Washington, D.C. 20426
Tel: (202) 386-6102

AREAS OF INTEREST: Generation, transmission, and distribution of electricity; production and transportation of natural gas; energy sources; pooling systems (interconnection and coordination of facilities); charges for interstate transmission and sale of electricity and natural gas; conservation and development of natural resources as related to licensing of power projects and natural gas production; construction of natural gas pipelines and non-Federal hydroelectric projects; import and export of natural gas and export of electric power.

HOLDINGS: Periodic reports of electric utility companies and of natural gas companies subject to FPC jurisdiction; proposals, expansion plans, proceedings on applications, rate and accounting data, maps, charts.

PUBLICATIONS: *News Digest* (daily); technical, statistical, and special reports; maps, news releases. A booklet, "A Guide to FPC Public Information," and a publications list are available.

INFORMATION SERVICES: Answers inquiries; makes referrals; supplies copies of records and tapes of data on cost basis; makes files available for public inspection. Some informational services are also available at the following branch offices:

Bureau of Power Regional Office
Federal Power Commission
730 Peachtree Bldg., Room 500
Atlanta, Ga. 30308
Tel: (404) 526-5134

Bureau of Power Regional Office
Federal Power Commission
610 South Canal St.
Chicago, Ill. 60607
Tel: (312) 353-6171

Bureau of Power Regional Office
Federal Power Commission
819 Taylor St.
Fort Worth, Tex. 76102
Tel: (817) 334-2631

Bureau of Power Regional Office
Federal Power Commission
26 Federal Plaza, 22nd Floor
New York, N.Y. 10007
Tel: (212) 264-3687

Bureau of Power Regional Office
Federal Power Commission
555 Battery St.
San Francisco, Calif. 94111
Tel: (415) 556-3581

FEDERAL RADIATION COUNCIL

0839 Washington, D.C. 20449
Tel: (202) 382-2505

The Council, composed of the Chairman of the Atomic Energy Commission, and the Secretaries of Agriculture, Defense, Commerce, Interior, Labor, and Health, Education, and Welfare, advises the President on radiation matters directly and indirectly affecting health.

AREAS OF INTEREST: Radiation standards; management of radioactive materials; radioactive fallout; protection against radioactivity.

PUBLICATIONS: Reports.

INFORMATION SERVICES: The Office of the Executive Director answers inquiries from the public and other sources and makes referrals.

FEDERAL RAILROAD ADMINISTRATION

see Transportation, Department of

FEDERAL-STATE AGRICULTURAL WEATHER SERVICE (FLORIDA)

0840 P.O. Box 1068 (City Hall)
Lakeland, Fla. 33802

Location:

230 South Massachusetts Ave.
Lakeland, Fla.
Tel: (813) 682-4221

AREAS OF INTEREST: Weather forecasting; frost warnings; microclimate for agriculture; methods for protecting crops from frost and freeze damage.

HOLDINGS: Data compilations, including weekly thermograph records for more than 400 stations, dating back to 1935.

PUBLICATIONS: Meteorological reports and other statistical summaries.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides daily weather forecasts for peninsular Florida agriculturists (a service operated by the U.S. Weather Bureau in cooperation with the Agricultural Experiment Stations of the University of Florida); provides duplication services; permits onsite use of collection.

FEDERAL WATER QUALITY ADMINISTRATION

see Interior, Department of the

FEDERATION OF SOCIETIES FOR PAINT TECHNOLOGY

0841 121 South Broad St.
Philadelphia, Pa. 19107
Tel: (215) 545-1506

AREAS OF INTEREST: Paint technology, including protective coatings, paints, lacquers, varnishes, organic coatings, health hazards, manufacturing methods, quality control, research, engineering, and education.

HOLDINGS: Books, journals, reports, maps, charts, standards and specifications, abstracts, indexes, preprints, reprints, research papers.

PUBLICATIONS: *Journal of Paint Technology* (monthly); *Thesaurus of Paint and Allied Technology*; directory, charts, standards.

INFORMATION SERVICES: Answers inquiries.

FIBER SOCIETY, INC.

0842 P.O. Box 625
Princeton, N.J. 08540

Location:

601 Prospect Ave.
Princeton, N.J.
Tel: (609) 924-3150

AREAS OF INTEREST: Fiber science, including polymer physics and chemistry, textile engineering and technology, and fiber morphology.

INFORMATION SERVICES: Makes referrals; conducts semiannual technical meetings, which are open to the public, for the presentation of original and review papers.

FIBONACCI BIBLIOGRAPHICAL AND RESEARCH CENTER

see San Jose State College

FIELD EMISSION CORP.

0843 P.O. Box 58
McMinnville, Oreg. 97128

Location:

Melrose Ave. at Linke St.
McMinnville, Oreg.
Tel: (503) 472-5101

AREAS OF INTEREST: Electron physics; radiography; particle accelerators; X-ray tubes and accessories; vacuum tubes; electron optics; vacuum technology; surface physics.

HOLDINGS: Books, reports, monographs, periodicals, abstracts, indexes, photos, reviews, data.

PUBLICATIONS: Catalogs, brochures.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides bibliographic services; provides consulting, analytical, and identification services for fee; permits onsite use of literature collection.

FIELD MUSEUM OF NATURAL HISTORY

0844 Roosevelt Rd. and Lake Shore Dr.
Chicago, Ill. 60605
Tel: (312) 922-9410

AREAS OF INTEREST: Ethnology; archeology; physical anthropology; botany; mineralogy; petrology; meteorites; paleontology; mammalogy; ornithology; herpetology; ichthyology; entomology; malacology; anatomy.

HOLDINGS: Over 10 million specimens; 135,000 photographic negatives; a scientific library of over 165,000 volumes.

PUBLICATIONS: Four major technical serials: *Fieldiana Anthropology*, *Fieldiana Botany*, *Fieldiana Geology*, and *Fieldiana Zoology*; monographs, bibliographies, pamphlets, press releases. Publication price lists are available.

INFORMATION SERVICES: Answers factual questions from the public; permits onsite use of literature collection by qualified researchers; makes interlibrary loans of published material. Extensive scientific collections are available for study to qualified researchers by arrangement with the chief curator of the department concerned. Exhibition areas are open to the public.

FILTERITE CORP.

0845 Greenspring Dr.
Timonium, Md. 21093
Tel: (301) 252-0800

AREAS OF INTEREST: Liquid and gas filtration, primarily cartridge type.

HOLDINGS: Samples, devices, photos, slides, display materials, project records, graphs, tables, reports, standards and specifications, reviews, books, periodicals, abstracts, newsletters, pamphlets, press releases, clippings, data.

PUBLICATIONS: Pamphlets, catalog literature, bulletins.

INFORMATION SERVICES: Answers inquiries; provides consulting services; prepares analyses of customers' samples and makes recommendations for the proper filtration of the fluid; makes referrals; permits onsite reference.

Facilities include a completely equipped laboratory for filter evaluation with Coulter Counter for particle count.

FINLEY ENGINEERING CO. OF WISCONSIN

0846 P.O. Box 147
Eau Claire, Wis. 54702

Location:

Rural Route 1
Eau Claire, Wis.
Tel: (715) 834-2605

AREAS OF INTEREST: Design of telephone communications systems; design of cable television systems.

HOLDINGS: 200 reports; 250 tapes; 800 maps and charts.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services for fee; permits onsite use of collection; performs circuit testing at voice frequencies.

FISH AND WILDLIFE SERVICE

see Interior, Department of the. Bureau of Commercial Fisheries *and* Bureau of Sport Fisheries and Wildlife

FISHER BERKELEY CORP.

0847 5800 Christie Ave.
Emeryville, Calif. 94608
Tel: (415) 655-9696

Fisher Berkeley Corp. is also known as EKTACOM, its registered trademark.

AREAS OF INTEREST: Wired communications equipment and systems; intercoms.

HOLDINGS: 500 standards and specifications; 50 graphs and tables; 50 reports; 50 devices; books, reviews, data.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides free wired communications design service to architects, engineers, and industrial-institutional users.

FISHER SCIENTIFIC CO.

0848 711 Forbes Ave.
Pittsburgh, Pa. 15219
Tel: (412) 391-1330

AREAS OF INTEREST: Laboratory instruments, apparatus, and chemical reagents.

HOLDINGS: The Fisher Collection of Alchemical and Historical Pictures, a pictorial museum on the evolution of chemistry, pharmacology, and medicine from Chinese alchemy to the atomic age; demonstration laboratories.

PUBLICATIONS: *The Laboratory* (quarterly) and *The Clinical Laboratory*, both disseminated through controlled free distribution.

INFORMATION SERVICES: Supplies technical information and publications to scientists and educators.

FLORIDA AGRICULTURAL EXPERIMENT STATIONS

see University of Florida. Institute of Food and Agricultural Sciences

FLORIDA ATLANTIC UNIVERSITY

Department of Ocean Engineering

0849 Florida Atlantic University
Boca Raton, Fla. 33432
Tel: (305) 395-5100

AREAS OF INTEREST: Basic and engineering sciences; ocean engineering; oceanography.

HOLDINGS: 1,000 books; 100 periodical titles; reports.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services by arrangement on individual basis. Small or infrequent services are provided free; regular or detailed services are provided on fee basis.

FLORIDA DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES

Division of Health

Bureau of Sanitary Engineering

0850 Division of Health
Florida Department of Health and
Rehabilitative Services
P.O. Box 210
Jacksonville, Fla. 32201

Location:

1217 Pearl St.
Jacksonville, Fla.
Tel: (904) 354-3961

AREAS OF INTEREST: Water supply; waste water treatment; water treatment; solid waste management; shellfish control.

HOLDINGS: Reports, standards and specifications, graphs, tables, project records, maps, charts, slides, photos, bacteriological water quality data.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; permits onsite reference.

FLORIDA DEPARTMENT OF NATURAL RESOURCES

Division of Interior Resources

Bureau of Geology

0851 Division of Interior Resources
Florida Department of Natural Resources
P.O. Box 631
Tallahassee, Fla. 32302

Location:

903 West Tennessee St.
Tallahassee, Fla.
Tel: (904) 224-7141 Ext. 285

AREAS OF INTEREST: Development of all water resource data leading to consideration, control, and management of water resources in Florida; public water supply; drainage, including ground water; monitoring of streamflow data and water quality in cooperation with the U.S. Geological Survey; development of the geologic facts for Florida mapping and stratigraphy; hyrogeology; sedimentology; mineralogy; oceanography geophysics; Florida mineral resources; administration of Florida oil and gas act and development of data on oil and gas stratigraphy, occurrences, and production.

HOLDINGS: Cores and cuttings from 10,000 water and oil wells; about 15,500 books; State surveys, current geologic journals, preprints and reprints of Florida geological sciences, bibliographies, maps; drillers', geologic, electric, caliper, and gamma-ray logs; inventory of water resources of each county.

PUBLICATIONS: *Bulletins*; *Reports of Investigations*, some prepared in cooperation with the U.S. Geological Survey; *Information Circulars*; bibliographies, reports, leaflets, maps.

INFORMATION SERVICES: Answers inquiries; provides consulting, literature-searching, and duplication services; permits onsite reference; lends materials.

Bureau of Water Resources

0852 Division of Interior Resources
Florida Department of Natural Resources
Larson Bldg., 5th Floor
Tallahassee, Fla. 32304
Tel: (904) 224-7141

AREAS OF INTEREST: Status of Florida's water resources; streamflow; lake levels; ground-water elevations; water use; growth rates; flood control; land reclamation; water management; salt water intrusion; wild-flowing wells; weather modification; ground-water recharge; water resources studies; flood plain identification.

HOLDINGS: 100 books; 320 journals; 1,920 reports; 2,400 maps; 100 charts; 2,400 slides; 13,000 punched cards; 65 reprints; 150 pamphlets.

PUBLICATIONS: Technical reports on research projects, educational pamphlets, basin study reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference.

FLORIDA STATE UNIVERSITY

Department of Oceanography

0853 Florida State University
Tallahassee, Fla. 32306
Tel: (904) 599-3385

AREAS OF INTEREST: Biological, chemical, geological, and physical oceanography (education and research). Special research interests include coastal environmental processes, coastal marine organisms, mariculture, model studies, and sea-air interaction.

HOLDINGS: Books, periodicals, reports, abstracts, maps, charts, reviews, films, photos, slides, project records, punched cards, newsletters, reprints, bibliographies, publication lists, pamphlets, press releases, clippings, data.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite reference.

The University operates the Florida State University Edward Ball Marine Lab, Rt. 1, Box 219A, Sopchoppy, Fla. 32358, Tel: (904) 697-3304 or 599-3144.

FLOWER AND COOK OBSERVATORY

see University of Pennsylvania. Department of Astronomy

FMC CORP.

Central Engineering Laboratories Library

0854 FMC Corp.
P.O. Box 580
Santa Clara, Calif. 95052

Location:

1185 Coleman Ave.
Santa Clara, Calif.
Tel: (408) 289-2007

AREAS OF INTEREST: Food preparation and processing equipment; farming and gardening equipment; packaging and paper box machinery; packaging materials; packing house and processing equipment; paper and film converting equipment; pumps and water systems; sewage treatment equipment and processes; textile fiber machinery; oil industry equipment; operations research; industrial materials handling; specialized machinery, equipment, and facilities for industry and Government; warehousing planning; distribution planning; disposal and scullery systems.

HOLDINGS: 3,000 books; 6,400 reports; 1,000 standards and specifications; 285 periodicals; 200 preprints and reprints; 300 pamphlets, booklets, leaflets, and brochures; publication lists, abstracts, indexes.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference by appointment.

Ordnance Engineering Library

0855 FMC Corp.
P.O. Box 367
San Jose, Calif. 95103

Location:

1105 Coleman Ave.
San Jose, Calif.
Tel: (408) 289-2852 or 289-2853

AREAS OF INTEREST: Ordnance engineering; tracked, wheeled, and amphibious vehicles, including materials, metal working techniques in manufacture, design criteria, water and soil trafficability, predictive performance data, fabrication methods, gears, drives, bearings, engines, turbines and suspension systems, coatings, seals, fasteners, and joints; human engineering; hydrodynamics; hydrostatics; hydraulics related to vehicles.

HOLDINGS: 1,500 books; 300 periodicals; 24,000 reports; 36,000 abstracts; 13,000 project records; 18,000 standards and specifications; 22,000 pamphlets; 3,400 bibliographies; 3,000 data compilations; newsletters, reviews, reprints, preprints, data.

PUBLICATIONS: Project records, reviews, abstracts.

INFORMATION SERVICES: Answers inquiries; provides bibliographic, duplication, and literature-searching services; makes referrals; makes interlibrary loans; permits onsite reference; lends materials other than classified or proprietary information.

FOOD FACILITIES CONSULTANTS SOCIETY

0856 P.O. Box 1238
Harrisburg, Pa. 17108

Location:
1517 North 2d St.
Harrisburg, Pa.
Tel: (717) 234-7069

AREAS OF INTEREST: Public and private food facilities engineering, including planning, specifications, cost, construction, sanitary requirements, and maintenance.

HOLDINGS: Technical reports.

PUBLICATIONS: News bulletin.

INFORMATION SERVICES: Answers inquiries; makes referrals. Consulting services are provided by individual members on fee basis.

FOOD PROCESSING MACHINERY AND SUPPLIES ASSOCIATION

0857 7758 Wisconsin Ave. NW.
Washington, D.C. 20014
Tel: (301) 656-5724

AREAS OF INTEREST: Food processing machinery, supplies, and services necessary for industry production; management of national exposition for food processors.

HOLDINGS: Records of exposition facilities in cities in which convention/expositions have been presented.

PUBLICATIONS: *Membership Directory* with products designation; *Convention/Exposition Directory*; periodic newsletters to the industry.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting marketing information.

FOOTE MINERAL CO.

Research and Development Library

0858 Foote Mineral Co.
Route 100
Exton, Pa. 19341
Tel: (215) 363-6500

AREAS OF INTEREST: Lithium, including alloys, inorganic and organic chemicals, and minerals; lithium in glass and ceramics; vanadium, including alloys and inorganic and organic chemicals; manganese; ferroalloys.

PUBLICATIONS: Books, state-of-the-art reports, technical data sheets, bibliographies, patents.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference by request.

FORD MOTOR CO.

Technical Information Section

0859 Scientific Research Staff
Ford Motor Co.
P.O. Box 2053
Dearborn, Mich. 48121

Location:
20000 Rotunda Dr.
Dearborn, Mich.
Tel: (313) 323-1059

AREAS OF INTEREST: Automotive, mechanical, human factors, electrical, and electronic engineering; chemistry; metallurgy; physics; mathematics; air and water pollution; transportation.

HOLDINGS: 14,000 books; 31,000 journals; 200,000 reports.

PUBLICATIONS: Acquisitions lists, bibliographies.

INFORMATION SERVICES: Provides reference and current awareness services; permits onsite reference by non-Company personnel by prior arrangement.

FOREST PRODUCTS RESEARCH SOCIETY

0860 2801 Marshall Court
Madison, Wis. 53705
Tel: (608) 231-1361

AREAS OF INTEREST: Fundamental and applied research in the wood products industry, including anatomy and fundamental properties of wood, timber production, mechanical and chemical conversion of wood, particle and fiber processes, glue and gluing processes, treatments and coatings, wood drying, engineering, production management, and marketing.

PUBLICATIONS: *Forest Products Journal* (monthly); *Wood Science* (quarterly).

INFORMATION SERVICES: Answers inquiries; makes referrals.

FOREST SERVICE

see Agriculture, Department of

FORESTRY, CONSERVATION COMMUNICATIONS ASSOCIATION

0861 Forest Fire Control
New York State Department of
Environmental Conservation
Albany, N.Y. 12201
Tel: (518) 457-5740

AREAS OF INTEREST: Forestry and conservation communications; radio frequencies associated with forestry and conservation activities, including their allocation; communications licenses.

PUBLICATIONS: *FCCA News and Views* (quarterly).

INFORMATION SERVICES: Answers inquiries.

FORMSPRAG CO.

0862 23601 Hoover Rd.
Warren, Mich. 48090
Tel: (313) 536-9000

AREAS OF INTEREST: Mechanical power transmission components; sprag-type clutches and freewheeling devices; mechanical engineering.

HOLDINGS: 250 books; 150 project records; 1,000 reports; 75 mechanical power transmission devices and instruments; 10 motion pictures; 900 photos; 900 slides; 75 rolls of microforms; 100,000 punched cards for IBM 360 computer; 500 graphs and tables; 600 pamphlets; 600 clippings; periodicals, indexes, abstracts, standards and specifications.*

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services for fee; permits limited onsite reference.

FORT WORTH MUSEUM OF SCIENCE AND HISTORY

0863 1501 Montgomery St.
Fort Worth, Tex. 76107
Tel: (817) 732-1631

AREAS OF INTEREST: Natural sciences; astronomy; astronautics; geology; paleontology; archeology.

HOLDINGS: 40,000 preserved natural history (arthropods, birds, mammals, reptiles), geological, and paleontological specimens; magnetic tapes, photos, and slides of astronautical and astronomical subjects; 22,000 historical artifacts.

PUBLICATIONS: Articles by individual staff members.

INFORMATION SERVICES: Answers inquiries; provides consulting services; identifies specimens; permits onsite reference; lends natural science collections to educational institutions or to their representatives; conducts taxonomic and biological research on parasitic and free-living mesostigmatic mites and taxonomic research on land snails of the Southwest; conducts classes for fee.

FORT WORTH POLICE DEPARTMENT

Crime Laboratory

0864 Fort Worth Police Department
1000 Throckmorton St.
Fort Worth, Tex. 76102
Tel: (817) 332-7241

AREAS OF INTEREST: Criminalistics.

HOLDINGS: Books, periodicals.

INFORMATION SERVICES: Answers brief inquiries; provides consulting services to and conducts criminalistics laboratory examinations for law enforcement agencies.

FORT WORTH PUBLIC LIBRARY

Business and Technology Department

0865 Fort Worth Public Library
9th and Throckmorton Sts.
Fort Worth, Tex. 76102
Tel: (817) 335-4781

AREAS OF INTEREST: General science; mathematics; astronomy; surveying; physics; chemistry; instrumentation; meteorology; oceanography; atomic power; mineralogy; geology; engineering (civil, mechanical, electrical, electronic, structural, marine, mining, aeronautical, astronautical, agricultural, automotive, petroleum); industrial chemistry; metallurgy; welding; plastics; horology; manufactures; estimating; building; plumbing; heating and air conditioning; data processing; computer programming; cryogenics; ASTM and USA Standards.

HOLDINGS: 45,000 books; 300 magazines; 49 drawers of pamphlets; special collection in geology, paleontology, and petroleum, including several thousand geological and topographical maps; complete depository collection of U.S. Government publications in geology; almost complete collection of 50 State geological survey publications.

PUBLICATIONS: Book lists (irregular).

INFORMATION SERVICES: Answers inquiries; provides duplication services; makes referrals; makes interlibrary loans; lends materials to residents of the City of Fort Worth and Tarrant County; permits onsite reference.

FOSTER WHEELER CORP.

Research Information Center and Library

0866 Foster Wheeler Corp.
12 Peach Tree Hill Rd.
Livingston, N.J. 07039
Tel: (201) 533-3663 or 533-3666

AREAS OF INTEREST: Air pollution control; applied thermodynamics; chemical engineering; combustion; explosive forming; mechanical engineering; metallurgical engineering; nuclear engineering; petroleum technology; structural mechanics; research related to steam generating equipment for the utilities, shipbuilding, and chemical processing industries.

HOLDINGS: 3,100 books; 235 periodical titles; 10,000 technical reports; experimental data.

PUBLICATIONS: *Heat Engineering* (bimonthly).

INFORMATION SERVICES: Makes interlibrary loans.

Facilities include an IBM 360-50 computer.

FOUNDATION FOR THE STUDY OF CYCLES, INC.

0867 124 South Highland Ave.
Pittsburgh, Pa. 15206
Tel: (412) 441-1666

AREAS OF INTEREST: Time series analysis and statistics with special reference to cycles; rhythmic fluctuations in all disciplines; time; environmental effects upon biological systems.

HOLDINGS: 1,000 books; 2,000 periodicals; 2,250 reports; 12,000 maps and charts; 56,000 statistical analyses; 1,500 graphs and tables; 1,500 abstracts; 700 newsletters; 550 reprints; 1,600 pamphlets; 2,500 clippings.

PUBLICATIONS: *Cycles* (monthly); research bulletins (irregular).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides bibliographic services; permits onsite use of literature collection.

FOUNDRY EDUCATIONAL FOUNDATION

0868 Terminal Tower Bldg.
Cleveland, Ohio 44113
Tel: (216) 781-7750

AREAS OF INTEREST: Cast metals; foundry industries; scholarships in foundry work; education and employment information.

PUBLICATIONS: Special publications available to member companies only.

INFORMATION SERVICES: Answers inquiries; makes referrals.

FOUNDRY EQUIPMENT MANUFACTURERS ASSOCIATION, INC.

0869 1000 Vermont Ave. NW.
Washington, D.C. 20005
Tel: (202) 628-4634

AREAS OF INTEREST: Foundry equipment, including blast cleaning and tumbling equipment, dust and fume control equipment, flasks, furnaces and accessories, material handling and processing equipment, molding and core making machines, and foundry supplies.

HOLDINGS: Small collection of books.

PUBLICATIONS: Membership directory and monthly bulletin.

INFORMATION SERVICES: Answers inquiries; makes referrals.

FRANCIS BACON LIBRARY

0870 655 North Dartmouth Ave.
Claremont, Calif. 91711
Tel: (714) 624-6305

AREAS OF INTEREST: History of science.

HOLDINGS: This is a rare-book library containing many volumes on early alchemy to the beginning of modern chemistry, early botany (herbals), early medicine (17th century), the beginning of inductive science, and histories of the Royal Society, primarily of the 16th and 17th centuries.

INFORMATION SERVICES: Answers inquiries; provides bibliographic services; provides duplication services for fee; permits onsite reference by qualified persons.

FRANK P. BRACKETT OBSERVATORY

0871 Pomona College
Claremont, Calif. 91711
Tel: (714) 626-8511 Ext. 2945 or 2946

AREAS OF INTEREST: Astronomy; physics; mathematics.

HOLDINGS: 5,300 books; 1,350 reports; 100 periodicals; 1 film; 2,200 photos; 450 slides; 40 microfilm rolls; 200 maps and charts.

INFORMATION SERVICES: Provides consulting services on contract basis; permits onsite use of collection.

FRANKLIN GNO CORP.

0872 P.O. Box 3250
West Palm Beach, Fla. 33402

Location:

6620 Lakeside Rd.
West Palm Beach, Fla.
Tel: (305) 683-6710

AREAS OF INTEREST: Plasma physics; general physics; "plasma chromatography".

HOLDINGS: 18 filing cabinets of unevaluated data; 10 filing cabinets of data compilations; 50 devices; 8 films; 1,600 photos; 500 slides; 50 maps and charts; 4,000 reports; 1,000 standards and specifications; 3,500 books; 50 journals; project records, abstracts, indexes, preprints, reprints, pamphlets, press releases, clippings.

PUBLICATIONS: Reports, brochures, catalogs.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; prepares analyses and evaluations of prototype instruments; permits onsite reference.

THE FRANKLIN INSTITUTE

The Franklin Institute Library

0873 Benjamin Franklin Parkway at 20th St.
Philadelphia, Pa. 19103
Tel: (215) 448-1224

AREAS OF INTEREST: Engineering (all aspects); mathematics; astronomy; physics; geophysics; space sciences; chemistry.

HOLDINGS: 300,000 books and periodical volumes; 4,000 journal subscriptions; over 5 1/2 million patents from the United States, Great Britain, and Switzerland; over 40,000 trade catalogs. Special collections include the Ware Reference Collection on Sugar, the Wright Brothers Aeronautical Engineering Collection, horological books and pamphlets, the Franklin Institute Archives, the Lenthall collection on naval vessels, and all important bibliographies, indexes, and abstracts in the fields of engineering, chemistry, physics, and related fields.

INFORMATION SERVICES: Provides reference, duplication, and literature-searching services; makes interlibrary loans.

The Franklin Institute Research Laboratories

Science Information Services

0874 The Franklin Institute Research Laboratories
20th and Race Sts.
Philadelphia, Pa. 19103
Tel: (215) 448-1227

AREAS OF INTEREST: Materials science and engineering, including metallurgy, solid state physics, and ceramics; mechanical and nuclear engineering, including applied mechanics, heat and fluid mechanics, and friction and lubrication; chemistry, including colloids and polymers, surface polymers, and solids and fluids; electrical engineering, including control systems optics and electronics, electromechanics, and bio-instrumentation; systems science, including operations research, environmental resources, behavioral and social science, transportation and safety, and education and community development; applied physics; aerospace; science information services, including bibliographic activities, technical writing, technical data compilations, R&D in scientific documentation, state-of-the-art surveys, technical translations, review writing, handbook writing, indexing, and abstracting.

PUBLICATIONS: *The Journal of the Franklin Institute* (monthly); *Ozone Chemistry and Technology* (semimonthly); various one-shot literature surveys on such subjects as transportation, gas lubricated bearings, heat transfer, braking systems, and CODEN (ASTM/FI).

INFORMATION SERVICES: The following services are provided on a contract basis or for a fee, with a minimum charge of one day's effort: retrospective bibliographies, selective dissemination on a current awareness basis, state-of-the-art surveys, development of indexing systems, design of information centers, development of thesauri, and technical translations.

Weather Center

0875 The Franklin Institute
Benjamin Franklin Parkway at 20th St.
Philadelphia, Pa. 19103
Tel: (215) 448-1246

AREAS OF INTEREST: Meteorology; meteorology education; weather analysis and forecasting; weather station operation.

HOLDINGS: Charts of continuously recorded rainfall, pressure, wind direction and speed, and temperature; weather instruments; limited climatological data, weather textbooks, reports, historical weather maps, slides, and films.

INFORMATION SERVICES: Presents educational lectures to primary and secondary school pupils (fifth grade and up) and special groups; conducts courses for secondary school teachers.

FRANKLIN INSTITUTE OF BOSTON

Department of Photography

0876 Franklin Institute of Boston
41 Berkeley St.
Boston, Mass. 02116
Tel: (617) 423-4630

AREAS OF INTEREST: Photography.

HOLDINGS: Small reference collection of books and periodicals.

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes referrals.

FREE LIBRARY OF PHILADELPHIA

Business, Science and Industry Department

0877 Free Library of Philadelphia
Logan Square
Philadelphia, Pa. 19103
Tel: (215) 686-5394
(215) 686-5404 (Automobile Reference Collection)

AREAS OF INTEREST: Automobiles and automobile engineering, historical and current; engineering, including chemical, electronic, gas, petroleum, and railway; paint technology; paper technology; metallurgy; heating, plumbing, and air conditioning; ships and shipping; textile technology.

HOLDINGS: 136,000 books; 1,900 periodicals currently received, including many complete runs; 88,000 pamphlets; 2,100 volumes of indexes, abstracts, and reviews; 1,800 volumes of bibliographies; 3,500 clippings; 4,100 microforms; 1,280 standards; company annual reports, many of them long runs. The Automobile Reference Collection includes 6,100 shop manuals, instruction books dating from 1903 to the present, 16,000 sales and parts catalogs, 15,000 photos, 1,530 slides, 3,100 books, 900 volumes of bound periodicals and 85 unbound periodicals, many of them currently received.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides literature-searching services in the Automobile Reference Collection; permits onsite reference; makes direct and interlibrary loans.

FRESNO DEPARTMENT OF PUBLIC WORKS

0878 City Hall
Fresno, Calif. 93721
Tel: (209) 266-8031

AREAS OF INTEREST: City public works.

HOLDINGS: City engineering maps, charts, and project records (all on microfilm).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides limited consulting services; provides duplication services for fee; permits onsite use of collection.

FRICTION MATERIALS STANDARDS INSTITUTE, INC.

0879 370 Lexington Ave.
New York, N.Y. 10017
Tel: (212) 683-0572

AREAS OF INTEREST: Brake linings; clutch facings; brake shoes.

HOLDINGS: Standards and specifications; catalogs.

PUBLICATIONS: *Brake Shoe Identification Catalog* (annual); *Automotive Brake Lining and Clutch Facing Data Book* (annual).

INFORMATION SERVICES: Answers inquiries; makes referrals.

FULD BROTHERS, INC.

0880 702 South Wolfe St.
Baltimore, Md. 21231
Tel: (301) 276-7400

AREAS OF INTEREST: Chemical specialties, including alkyl benzene, chelation, remote chromatography, cleaners, cleaner disinfectants, waxes, polishes, insecticides, corrosion, odors, sanitation, and quality control; analysis of chemical specialties; statistics on chemical specialties.

HOLDINGS: 7,000 data compilations and analyses; 1,000 reports; 4,000 standards and specifications; 6,000 reviews; 1,100 abstracts and indexes; data.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference.

Facilities include two research laboratories equipped for research in all areas mentioned above, and a control laboratory to conduct tests required by GSA and Department of Defense.

FUSED SALTS INFORMATION CENTER

see Sandia Laboratories

GAF CORP.

Central Research Laboratory Library

0881 GAF Corp.
Coal and Lincoln Sts.
Easton, Pa. 18042
Tel: (215) 258-6101

AREAS OF INTEREST: Synthesis and use of organic compounds.

HOLDINGS: 5,000 books; 6,000 journals; 200,000 U.S. patents; 25,000 foreign patents; reports, data, films, photos.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite use of collection by prior arrangement with librarian.

Research Library

0882 R&D Division
GAF Corp.
Binghamton, N.Y. 13902
Tel: (607) 729-6555 Ext. 3138

AREAS OF INTEREST: Chemistry; physics; photography.

HOLDINGS: 6,000 books; 4,000 bound journals; 5,500 reports.

PUBLICATIONS: Accessions list, journals, reports, bibliography, translations.

INFORMATION SERVICES: Makes interlibrary loans.

GALE RESEARCH CO.

0883 Reader Service Bureau
Book Tower
Detroit, Mich. 48226
Tel: (313) 961-2242

AREAS OF INTEREST: Academic and research institutes, associations, professional societies, special libraries and information centers, and other organizations related to the physical sciences, engineering, technology, mathematics, natural sciences, social sciences, and Government.

HOLDINGS: Extensive files on information facilities.

PUBLICATIONS: *Encyclopedia of Associations* (1967); *Directory of Special Libraries and Information Centers* (1967); *Research Centers Directory* (1968).

INFORMATION SERVICES: Answers inquiries; assists inquirers in need of information sources that cannot be located in any of the Company's publications; permits onsite use of collection by request.

GAMMA-RAY SPECTRUM CATALOGUE

see National Reactor Testing Station

GAS APPLIANCE MANUFACTURERS ASSOCIATION, INC.

0884 60 East 42d St.
New York, N.Y. 10017
Tel: (212) 682-8743

AREAS OF INTEREST: Gas appliances, including shipments, characteristics, legislation, codes and ordinances, and merchandizing; gas ranges; gas heating.

HOLDINGS: Books, journals, reports, patents, data.

PUBLICATIONS: *Patent Digest* (monthly); bulletins, statistics.

INFORMATION SERVICES: Answers inquiries; permits onsite use of literature collection by appointment.

GENERAL DYNAMICS CORP.

Convair Division

Library and Information Services

0885 Convair Division of General Dynamics
P.O. Box 12009
San Diego, Calif. 92112
Tel: (714) 277-8900 Ext. 1073

AREAS OF INTEREST: Astronautics; space technology; life sciences; missiles; aeronautics; electronics; computer technology; metallurgy; mathematics; physics; chemistry; engineering.

HOLDINGS: 32,000 books; 12,000 bound journals; 160,000 reports; maps and charts, data.

PUBLICATIONS: Accessions list, index, bibliography, translations.

INFORMATION SERVICES: Provides reference, consulting, and translating services primarily to Company employees, and to others by special arrangement.

Electric Boat Division Technical Information Center

0886 General Dynamics Corp.
Eastern Point Rd.
Groton, Conn. 06340
Tel: (203) 446-5591 or 446-3481

AREAS OF INTEREST: Oceanography; naval, marine, nuclear, and electrical engineering; physics; chemistry; biology (marine and life support); hydrodynamics; acoustics; submarines.

HOLDINGS: 5,000 books; 500 periodical titles; 10,000 reports.

PUBLICATIONS: *Union List of Periodicals.*

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and duplication services. These services are available to General Dynamics Corp employees and U.S. Government agencies only. The Center also makes interlibrary loans to cooperating libraries and other information centers on a reciprocal basis.

GENERAL ELECTRIC CO.

AEG Technical Information Center

0887 N-32, Building 700
General Electric Co.
Cincinnati, Ohio 45215
Tel: (513) 243-4333

AREAS OF INTEREST: Aerospace propulsion and related technologies, including gas turbines, magnetohydrodynamics, heat transfer, materials and processes, nuclear science, rocket engines, missiles, metallurgy, acoustics, aerodynamics, fluid mechanics, mathematics and computation, structural analysis, fuels and combustion, instrumentation and controls, space power and propulsion technology, reliability, and management.

HOLDINGS: 22,000 books; 11,000 journals; 170,000 reports; patents, microfiche, microcards, data.

PUBLICATIONS: *TIPS* (*Technial Information Prevue Series*), a weekly abstract announcement publication; technical reports, continuing surveys.

INFORMATION SERVICES: Answers technical inquiries; provides information on current research and development projects and scientific data or data compilations on request; provides consulting, literature-searching, reference, and translating services; makes interlibrary loans; permits onsite use of collection by qualified visitors.

Lamp Division Inquiry Bureau

0888 General Electric Co.
Nela Park
East Cleveland, Ohio 44112
Tel: (216) 266-2393

AREAS OF INTEREST: Light sources, including types, characteristics, and operation; lighting applications, including residential, commercial, industrial, and special; lighting research, including sources, applications, and vision research; lighting education, including methods and demonstration devices and equipment.

HOLDINGS: 50,000 color slides; books, periodicals, reports, demonstration equipment and lighting displays.

PUBLICATIONS: *Light* (quarterly); reports, technical booklets, pamphlets, data sheets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and reference services; provides information on lighting courses and conferences at GE Lighting Institute, Nela Park.

GENERAL MOTORS INSTITUTE LIBRARY

0889 Flint, Mich. 48502
Tel: (313) 766-3301

AREAS OF INTEREST: Automotive, mechanical, electrical, and industrial engineering; mechanics.

HOLDINGS: 45,000 books; 7,000 technical reports; 2,300 rolls of microfilm; periodicals, abstracts, indexes, preprints, bibliographies, unique collection of clippings of components of early automobiles.

PUBLICATIONS: Accessions list.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides bibliographic and limited literature-searching services; permits onsite reference to some materials by request. Each request is handled on its own merits.

GENERAL SERVICES ADMINISTRATION

Business Service Centers

0890 See locations listed below

AREAS OF INTEREST: Procurement and disposal policies, regulations, and procedures for real and personal property; bids and related documents; specifications; contract forms and conditions; design and construction of public buildings; records management, including creation, preservation, and disposal; transportation and communications management; minority contract program.

PUBLICATIONS: Brochures.

INFORMATION SERVICES: The Business Service Centers, located in major geographic areas of the U.S., are central sources of information for all GSA activities and for other Government-contract programs. Their primary function is to advise bussinessmen of methods of doing business with the Government. The Centers will furnish quantities and prices of past contract awards, names of current prime contractors from whom subcontracts might be obtained, displays of current bid invitations, copies of Federal supply schedules, specifications, regulations and procedures, and contract forms.

Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont)
Regional Director of Business Affairs
General Services Administration
John F. Kennedy Federal Bldg.
Boston, Mass. 02203
Tel: (617) 223-2868

Region 2 (Delaware, New Jersey, New York, Pennsylvania, Puerto Rico, and Virgin Islands)
Regional Director of Business Affairs
General Services Administration
30 Church St.
New York, N.Y. 10007
Tel: (212) 264-1234

Region 3 (District of Columbia, Maryland, Virginia, and West Virginia)
Regional Director of Business Affairs
General Services Administration
7th and D Sts. SW.
Washington, D.C. 20407
Tel: (202) 963-4147

Region 4 (Florida, Georgia, Mississippi, North Carolina, South Carolina, and Tennessee)
Regional Director of Business Affairs
General Services Administration
1776 Peachtree St. NW.
Atlanta, Ga. 30309
Tel: (404) 526-5661

Region 5 (Illinois, Indiana, Kentucky, Michigan, Ohio, and Wisconsin)
Regional Director of Business Affairs
General Services Administration
219 South Dearborn St.
Chicago, Ill. 60604
Tel: (312) 353-5383

Region 6 (Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, and South Dakota)
Regional Director of Business Affairs
General Services Administration
1500 East Bannister Rd.
Kansas City, Mo. 64131
Tel: (816) 361-7203

Region 7 (Arkansas, Louisiana, Oklahoma, and Texas)
Regional Director of Business Affairs
General Services Administration
819 Taylor St.
Fort Worth, Tex. 76102
Tel: (817) 334-3284

Region 8 (Arizona, Colorado, New Mexico, Utah, and Wyoming)
Regional Director of Business Affairs
General Services Administration
Denver Federal Center, Building 41
Denver, Colo. 80225
Tel: (303) 233-6689

Region 9(a) (Northern California, Hawaii, and Nevada)
Regional Director of Business Affairs
General Services Administration
49 Fourth St.
San Francisco, Calif. 94103
Tel: (415) 556-2114

Region 9(b) (Los Angeles and Southern California)
Business Service Center
General Services Administration
300 North Los Angeles St.
Los Angeles, Calif. 90012
Tel: (213) 688-3210

Region 10 (Alaska, Idaho, Montana, Oregon, and Washington)
Regional Director of Business Affairs
General Services Administration
909 First Ave., Federal Office Bldg.
Seattle, Wash. 98104
Tel: (206) 583-5558

Office of Information

0891 Office of the Administrator
General Services Administration
18th and F Sts. NW.
Washington, D.C. 20405
Tel: (202) 343-4243

AREAS OF INTEREST: Financial and administrative management services and programs; automatic data processing equipment (management and utilization); manpower utilization; emergency mobilization planning; contract administration; auditing systems; Federal procurement regulations; quality control of materials; supply management; reserve inventories of strategic and critical materials; public buildings (design, construction, management, maintenance); transportation, public utilities, and communications services; surplus real and personal properties (utilization and disposal).

INFORMATION SERVICES: Answers inquiries; makes referrals.

GENERAL TELEPHONE AND ELECTRONICS LABORATORIES, INC.

Bayside Laboratories Library

0892 General Telephone and Electronics Laboratories, Inc.
208-20 Willets Point Blvd.
Bayside, N.Y. 11360
Tel: (212) 225-5000

AREAS OF INTEREST: Chemistry (inorganic, physical, electrochemistry); photochemistry; crystallography; electronics; electrical engineering; mathematics; optics; physics; spectroscopy; communications; telecommunications; metallurgy (ferrous and nonferrous); ceramics; computers.

HOLDINGS: 12,000 books; 300 periodical titles; 2,500 reports on microfiche.

INFORMATION SERVICES: Makes interlibrary loans.

397-718 O-LT - 71 - 16

GENERAL TIRE AND RUBBER CO.

Research Library

0893 General Tire and Rubber Co.
P.O. Box 951
Akron, Ohio 44309

Location:
2990 Gilchrist Rd. (Mogadore)
Akron, Ohio
Tel: (216) 798-2818

AREAS OF INTEREST: Rubber; plastics; textiles; organic and analytical chemistry; aerospace engineering (solid propellants, rocket liners); automotive engineering.

HOLDINGS: 6,600 books; 4,800 periodicals; 150,000 abstracts; 15,000 reports, standards, and specifications; thousands of U.S. and foreign patents; extensive card file of trade names; bibliographies, reprints, data.

PUBLICATIONS: *Literature Review*, *Foreign Patent Review*, *U.S. Patent Review* (all weekly). Publications are principally for internal dissemination.

INFORMATION SERVICES: Answers inquiries; permits onsite reference by request.

GEODATA CORP.

0894 1422 Thompson Bldg.
Tulsa, Okla. 74103
Tel: (918) 584-3366

AREAS OF INTEREST: Geological and geophysical data for petroleum exploration.

HOLDINGS: A seismogram library with over 1,000,000 seismic profiles.

PUBLICATIONS: Index Maps showing seismic coverage available through the Corporation's various services; brochure.

INFORMATION SERVICES: Rents seismic profiles; makes available brokerage data that is owned by various oil companies (approximately 4,000,000 profiles); provides qualified geophysicists and geologists for review work, regional and local studies, evaluation of foreign concessions, research projects, etc.; arranges trades or exchanges of geophysical information for both domestic and foreign areas on a confidential basis; locates and acquires seismic data or other geological and geophysical information for a client.

THE GEOGRAPHICAL RESEARCH INSTITUTE

0895 c/o Denoyer-Geppert Co.
5235 Ravenswood Ave.
Chicago, Ill. 60640
Tel: (312) 561-9200

AREAS OF INTEREST: Geography; history (ancient, medieval, modern, United States, world); economics; biology; earth science; science in general; education.

HOLDINGS: Editorial library (reference books, atlases, maps); plants, animals (in preserved form), skeletons, anatomical and biological models, maps, charts, transparencies, filmstrips, film loops, 35mm slides, movies, records, map and chart mountings, pamphlets, projectors, microscopes.

PUBLICATIONS: Cartocraft Teaching Aids, Cartocraft Research Studies, teachers' manuals, miscellaneous reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services in the fields of biology and geography (a fee may be charged); distributes visual aids to schools and colleges; permits visits by school children (7th grade and up) and teachers to see how maps, globes, charts, and models are made and for lessons in geography, history, citizenship, biology, and health. Services are primarily for educational institutions; the Institute does not cater to the lay public.

GEOLOGICAL SURVEY

see Interior, Department of the

GEOPHYSICAL FLUID DYNAMICS LABORATORY

see Commerce, Department of. Environmental Science Services Administration. Research Laboratories

GEORGE C. MARSHALL SPACE FLIGHT CENTER TECHNICAL LIBRARY

see National Aeronautics and Space Administration. Office of Manned Space Flight

GEORGE WASHINGTON UNIVERSITY

The PTC Research Institute

0896 The George Washington University
Washington, D.C. 20006
Tel: (202) 676-6450

AREAS OF INTEREST: Intellectual and industrial property, both domestic and international, including intangible creations of the mind, inventions, "know-how", technical and ornamental designs, and literary and artistic products; trademarks, patents, copyrights, and related antitrust and trade practice laws.

HOLDINGS: A small, specialized library of books, journals, etc.

PUBLICATIONS: *IDEA* (The Patent, Trademark, and Copyright Journal of Research and Education, quarterly, plus an issue on conference proceedings); *Report to Members*; *Bulletin*; *The Digest*; *The Trademark, the Maker's Monogram*; *The Patent System All Around You*; *The "C" in the Circle, Copyright--What Is It?*; *The PTC News Notes*; *What Do You Know About...?* (a series); *Patent Revision Proposals: Incentives or Deterrents to Technological Innovation?* (monograph); *Nurturing New Ideas: Legal Rights and Economic Roles* (a book).

INFORMATION SERVICES: Answers inquiries.

GEORGETOWN UNIVERSITY

Georgetown University Libraries

Observatory Library

0897 Georgetown University
37th and O Sts. NW.
Washington, D.C. 20007
Tel: (202) 625-4227

AREAS OF INTEREST: Astronomy, including spectroscopic work on atmospheres of planets, sun, and moon; astrophysical metals such as titanium, zirconium, yttrium, iron, etc.; photoelectric photometry of stars.

HOLDINGS: 10,250 books; 35 periodical titles; 5,000 reports (cross indexed); data.

PUBLICATIONS: *Georgetown College Observatory Monographs*, Reprints Series I and II (distributed to observatories worldwide).

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference by request.

Science Library

0898 Georgetown University
37th and O Sts. NW.
Washington, D.C. 20007
Tel: (202) 625-4733

AREAS OF INTEREST: Biology; chemistry; mathematics; physics; general sciences; history and philosophy of science.

HOLDINGS: 30,000 books; 600 periodical titles; reports, data.

INFORMATION SERVICES: Makes interlibrary loans; provides duplication services; permits onsite reference.

GEORGIA AGRICULTURAL EXPERIMENT STATION

see University of Georgia

GEORGIA CRUSHED STONE ASSOCIATION

0899 The Equitable Bldg., Suite 1835
100 Peachtree St. NE.
Atlanta, Ga. 30303
Tel: (404) 524-5855

AREAS OF INTEREST: Crushed stone, including quarrying, crushing, and use of crushed stone in construction of buildings, roads, drainage products, specialized building products such as precast stone and building blocks, and in poultry feed and agriculture; acceptance and use of crushed stone in all areas of use where the general welfare of the country is served.

INFORMATION SERVICES: Provides technical advice on uses of various sizes of crushed stone; consults on specifications with architects and engineers; informs membership of crushed stone needs, developments, and uses.

GEORGIA DEPARTMENT OF MINES, MINING AND GEOLOGY

Division of Conservation

0900 Georgia Department of Mines, Mining and Geology
Agriculture Laboratory Bldg.
19 Hunter St. SW.
Atlanta, Ga. 30303
Tel: (404) 522-7076

AREAS OF INTEREST: Geology and mineral resources of Georgia.

HOLDINGS: Data on chemical contents of water wells in the State; rock samples from water wells.

PUBLICATIONS: *Bulletins*; *Information Circulars*; *Mineral Newsletter*; project reports on drillings for economic minerals; geology and mineral resources publications; maps. A publications price list is available.

INFORMATION SERVICES: Answers inquiries; provides consulting services; analyzes mineral content of water samples for State residents.

GEORGIA INSTITUTE OF TECHNOLOGY

Price Gilbert Memorial Library

0901 Georgia Institute of Technology
Atlanta, Ga. 30332
Tel: (404) 873-4211 Ext. 350

AREAS OF INTEREST: Aerospace engineering; applied biology; architecture; ceramic engineering; chemical engineering; chemistry; civil engineering; electrical engineering; engineering graphics; engineering mechanics; industrial engineering; industrial management; information and computer science; mathematics; mechanical engineering; nuclear engineering; physics; psychology; systems engineering; textiles; textile engineering; safety engineering; radiological health; city planning; solid waste technology; water resources.

HOLDINGS: 454,856 bound volumes; 72,090 technical reports; 152,337 Government documents; 48,649 pamphlets; 8,978 phonorecords; 62,589 maps; 1,095,661 patents; 27,559 slides; 526 films; 146 filmstrips; 451,726 microtext items. The Library receives 12,924 serial titles, of which 4,951 are current periodicals. It is a depository for NASA and Rand Corp. reports, U.S. Army Map Service publications, and other U.S. Government documents. It subscribes to a full range of AEC and CFSTI reports. U.S. patents are complete, 1946 to date. Complete files of military standards and specifications on microfilm are supplemented by a strong collection of society and industrial standards.

INFORMATION SERVICES: Provides reference, bibliographic, literature-searching (including computerized), interlibrary loan, and duplication services for fee; permits onsite use of collection. A brochure describing the Library's services and fees is available.

Rich Electronic Computer Center

0902 Georgia Institute of Technology
225 North Ave. NW.
Atlanta, Ga. 30332
Tel: (404) 873-4211

AREAS OF INTEREST: Analysis, research, programming, and digital computing services in the fields of operations research, numerical analysis, the physical sciences, engineering, management, statistics, economics, and information processing, systems design, and storage and retrieval; programming languages (basic, assembler, compiler); digital plotter; analog to digital conversion data.

HOLDINGS: Computer programs, routines, and subroutines in the areas of operations research techniques, scientific management, statistics, and numerical analysis.

PUBLICATIONS: Reports on tape and cards.

INFORMATION SERVICES: Provides consulting services, usually on a fee basis to outside organizations.

GEORGIA STATE PLUMBING INSPECTORS ASSOCIATION, INC.

0903 c/o Mr. C. J. Dulohery, Secretary-Treasurer
P.O. Box 1038
Savannah, Ga. 31402
Tel: (912) 233-9321 Ext. 327

AREAS OF INTEREST: Plumbing code enforcement in Georgia, with emphasis on problems of water supply, water purification, drainage systems, all types of plumbing installations, sewage disposal (both private and public), and standardization in practice of material and supplies.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services.

GEORGIA WATER QUALITY CONTROL BOARD

0904 47 Trinity Ave. SW.
Atlanta, Ga. 30334
Tel: (404) 688-4033 Ext. 406

AREAS OF INTEREST: Physical, chemical, and biological characteristics of the water resources of Georgia; water quality; waste treatment; water pollution control.

HOLDINGS: Construction plans for waste treatment facilities in Georgia; water quality data (chemical and biological).

PUBLICATIONS: *Special Water Quality Surveys*; *Evaluations of Treatment Facilities* (*Waste*); *Monitoring & Surveillance System* (*Operation & Maintenance*); standards and specifications; annual report.

INFORMATION SERVICES: Answers technical inquiries; makes referrals; provides consulting and limited bibliographic services.

GEOSCIENCE INSTRUMENTS CORP.

Geos Materials Technology Division

0905 Geoscience Instruments Corp.
435 East 3d St.
Mount Vernon, N.Y. 10553
Tel: (914) 664-5100

AREAS OF INTEREST: Abrasive products; poromeric polishing pads; lapping and polishing machines; cutoff saws; mounting media; high energy ball mills; grinding mills; mortars; sieve shakers; gravitational classifiers; resistivity bridges.

PUBLICATIONS: Magazine articles and technical reports released monthly.

INFORMATION SERVICES: Provides technical reports and procedural information on critical surface preparation, high energy grinding, and particle classification; permits trial use of equipment for determining feasibility of application.

Facilities include a materials processing laboratory with cut-off saws, lapping and polishing machines, grinding mills, and particle classification equipment.

GEOSURVEYS

0906 3625 South Florence Pl.
Tulsa, Okla. 74105
Tel: (918) 743-8411

AREAS OF INTEREST: Applied mineralogy, including exploration and development, production, consumption, and reserves; energy resources; water supply; mineral economics and transportation; mineral developments in the United States and abroad; ground water; dam foundations.

HOLDINGS: 2,000 books; 7,500 reprints; journals, reports, maps, charts, data, records of interviews and personal investigations; a specialized collection of geologic and economic reports from all Latin American countries.

PUBLICATIONS: *GeoSurveys* (occasional releases); articles.

INFORMATION SERVICES: Provides consulting services for fee; provides duplication services; permits onsite use of collection.

GERMANIUM INFORMATION CENTER

see Midwest Research Institute

GICHNER MOBILE SYSTEMS, INC.

0907 6701 Ammendale Rd.
Beltsville, Md. 20705
Tel: (301) 345-9000

AREAS OF INTEREST: Demountable military towable vehicles and electronic equipment shelters.

HOLDINGS: 2,800 standards and specifications; 1,800 photos; 100 slides; 1,700 data compilations; 2,400 periodicals; 1,200 books; 260 technical reports; 4,000 pamphlets; 440 reprints; motion pictures, graphs, tables, newsletters, drawings, punched cards.

PUBLICATIONS: Brochure.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and limited bibliographic services; provides stress analysis; permits onsite use of collection. Access to patented drawings is restricted; other drawings are disseminated for fee.

Facilities include a microfilm reader-printer.

GLASS CONTAINER MANUFACTURERS INSTITUTE

0908 330 Madison Ave.
New York, N.Y. 10017
Tel: (212) 682-5533

AREAS OF INTEREST: Glass containers and closures, including manufacture, handling, and use; packaging, including glass and competitive materials; all end use product areas (beverages, foods, drugs, cosmetics, chemicals, etc.).

HOLDINGS: 50 periodical titles; books, reports; a collection of antique bottles.

PUBLICATIONS: *Glass Containers* (annual); reports, specifications, educational and promotional materials.

INFORMATION SERVICES: Answers inquiries; lends materials; permits onsite use of literature collection by qualified researchers by special arrangement. Some requests are not serviced because of limited staff and space.

GLASS RESEARCH CENTER LIBRARY

see PPG Industries, Inc.

GLASS TEMPERING ASSOCIATION

0909 2217 Tribune Tower
435 North Michigan Ave.
Chicago, Ill. 60611
Tel: (312) 644-0828

AREAS OF INTEREST: Glass tempering; development of specifications for all uses of tempered glass; promotion of use of tempered glass in doors for protection against vandalism and burglary.

HOLDINGS: Reports, data.

PUBLICATIONS: Journal, report, standards and specifications, data handbook, engineering standards manuals, product directory.

INFORMATION SERVICES: Answers inquiries.

GLASSBORO STATE COLLEGE

Science Department

0910 Glassboro State College
Glassboro, N.J. 08028
Tel: (609) 881-8400 Ext. 261

AREAS OF INTEREST: Physics; chemistry; geology; astronomy; biology; human genetics; microbiology; virology.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

GLIDDEN-DURKEE DIVISION

see SCM Corp.

GODDARD SPACE FLIGHT CENTER LIBRARY

see National Aeronautics and Space Administration. Office of Space Science and Applications

GOLF COURSE SUPERINTENDENTS ASSOCIATION OF AMERICA

0911 3158 Des Plaines Ave.
Des Plaines, Ill. 60018
Tel: (312) 824-6147

AREAS OF INTEREST: Turfgrass science and golf course maintenance, including maintenance of tees, greens, fairways, shrubs, trees, and recreational areas such as tennis courts and swimming pools, maintenance equipment, and maintenance methods.

HOLDINGS: Reports, journals.

PUBLICATIONS: *The Golf Superintendent* (10 issues a year); *GCSAA Newsletter* (quarterly); *GCSAA Membership Directory* (annual); *Annual Turfgrass Conference Proceedings* (annual); *GCSAA Management Aids List* (revised semiannually).

INFORMATION SERVICES: Answers inquiries pertaining to golf course maintenance; sponsors Annual International Turfgrass Conference and Show in February; administers GCSAA Scholarship and Research Fund, Inc.

GOODSELL OBSERVATORY

0912 Carleton College
Northfield, Minn. 55057
Tel: (507) 645-4431 Ext. 412

AREAS OF INTEREST: Astronomical photometry; visual double stars.

HOLDINGS: Books, journals, maps, charts, monographs.

PUBLICATIONS: Research results (irregular, available by exchange with other observatories).

INFORMATION SERVICES: Answers inquiries; makes referrals; makes interlibrary loans; permits onsite use of collection.

GOODYEAR AEROSPACE CORP.

0913 1210 Massillon Rd.
Akron, Ohio 44315
Tel: (216) 794-2557

AREAS OF INTEREST: Tactical missile systems; torpedoes and antisubmarine warfare weapons; radar systems and reconnaissance equipment; space technology and equipment; intelligence data systems; guidance, navigation, and control systems; simulators and trainers; airframe structures; lightweight composite structures; air cargo equipment; data processors; photo processing facilities; aircraft canopies and windows; commercial plastic products; recovery and retardation systems; fabric structures; electronic equipment; lighter-than-air systems.

HOLDINGS: 8,000 books; 180,000 technical reports; 600 periodicals; 240 motion pictures; 850,000 still photos; 100,000 microfiche; 14,000 slides; 5,000 pamphlets; military and industry specifications; abstracts, indexes, newsletters, reprints and preprints, Lighter-Than-Air Archives.

PUBLICATIONS: Technical reports (for in-house use only).

INFORMATION SERVICES: Answers brief inquiries free; provides advisory services for fee; provides analytical and testing services, generally on contract basis; provides short lists of literature citations; permits onsite use of collection.

GOODYEAR ATOMIC CORP.

Technical Library

0914 Goodyear Atomic Corp.
P.O. Box 628
Piketon, Ohio 45661
Tel: (614) 289-2331

AREAS OF INTEREST: Chemistry; physics; radiation; mathematics; nuclear physics; engineering; gaseous diffusion process technology; metallurgy; industrial safety.

HOLDINGS: 15,000 books; 12,000 bound journals; 450 periodical titles; 150,000 reports.

INFORMATION SERVICES: Makes interlibrary loans.

GOODYEAR TIRE AND RUBBER CO.

Technical Information Center

0915 Goodyear Tire and Rubber Co.
142 Goodyear Blvd.
Akron, Ohio 44313
Tel: (216) 794-4980

AREAS OF INTEREST: Rubber; plastics; synthetic fibers; organic chemistry; physics; mathematics; management; data processing; nuclear science.

HOLDINGS: 6,336 books; 10,134 bound journals; 425 current periodical titles; 33 file drawers of pamphlets; 34 file drawers of patents.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, reference, literature-searching, abstracting and indexing, translating, and duplication services; provides extensive SDI service via computer facilities; lends materials; permits onsite use of collection.

GOVERNMENT PRINTING OFFICE

Office of the Superintendent of Documents

0916 Government Printing Office
North Capitol St. between G and H Sts. NW.
Washington, D.C. 20401
Tel: (202) 541-2081

AREAS OF INTEREST: Sales and distribution of Government publications.

HOLDINGS: The library of the Office of the Superintendent of Documents maintains a collection of almost 2 million Government documents. It is not open to the public except by special authorization of the Superintendent of Documents, but interlibrary loans are made to other Government agencies.

INFORMATION SERVICES: This Office provides information regarding catalogs, availability, and sales prices of Government publications printed by the Government Printing Office and designed by the originating department for public sale; also general information about the administration of the Federal Depository Library Program under authority of Public Law 87-579.

Tests and Technical Control Division

0917 Government Printing Office
45 G St. NW.
Washington, D.C. 20401
Tel: (202) 541-3481

AREAS OF INTEREST: Letterpress and offset printing, especially materials and processes used therewith; printing papers (specifications and testing); type and plate metals (analysis and recovery); inks (manufacture and testing); bookbinding materials (specifications and testing), including manufacture of adhesives; printing rollers; platemaking; photoengraving; electrotyping; miscellaneous materials, including detergents, solvents, oils, and chemicals.

HOLDINGS: About 1,000 bound volumes; Federal and other Government specifications in areas of interest; official methods of ASTM, TAPPI, AATCC, etc.; relevant current technical and scientific periodicals.

INFORMATION SERVICES: Provides consulting services to Government agencies; makes referrals for others.

Typography and Design Division

0918 Government Printing Office
North Capitol St. between G and H Sts. NW.
Washington, D.C. 20401

Tel: (202) 541-3339 or 541-3728

AREAS OF INTEREST: Printing design; typography; copy preparation; artwork; layout.

INFORMATION SERVICES: Provides technical guidance and assistance to Government agencies in the above-listed subjects.

W. R. GRACE AND CO.

Dearborn Chemical Division Library

0919 320 Genesee St.
Lake Zurich, Ill. 60047
Tel: (312) 438-8241 Ext. 219

AREAS OF INTEREST: Chemical engineering; water treatment and corrosion; organic, inorganic, analytical, and physical chemistry; desalination; protective coatings; cooling towers; boilers; boiler water treatment; water pollution control and treatment.

HOLDINGS: 3,100 books; 5,400 pamphlets; 5,000 patents; clippings.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference.

GRAMBLING COLLEGE LIBRARY

Division of Science and Technology

0920 Grambling College Library
P.O. Box 3
Grambling, La. 71245
Tel: (318) 247-3761 Ext. 229

AREAS OF INTEREST: Science and technology.

HOLDINGS: The Grambling College Library has 80,000 books and 1,200 periodical titles.

INFORMATION SERVICES: Provides reference services; lends materials; provides duplication services at cost; permits onsite use of collection.

GRAPHIC ARTS RESEARCH CENTER

see Rochester Institute of Technology

GRAPHIC ARTS TECHNICAL FOUNDATION

0921 4615 Forbes Ave.
Pittsburgh, Pa. 15212
Tel: (412) 621-6941

AREAS OF INTEREST: All phases of printing; education, management, pollution control, paper, ink, packaging, and advertising as related to the graphic arts industry.

HOLDINGS: 2,100 books and bound journals; 350 current periodical subscriptions; 250 patents; 300 pamphlets; 200 trade catalogs; approximately 19,000 abstract cards and microfiche aperture cards from graphic arts literature.

PUBLICATIONS: *Graphic Arts Abstracts* (monthly); *GATF Newsletter* (6 issues a year); *GATF Bulletin Technical Service Report* (irregular); *Research Progress* (irregular); *Annual Report*; *Report of Progress* (annual); textbooks, instructors' material.

INFORMATION SERVICES: Provides reference, bibliographic, consulting, and duplication services; conducts in-plant training programs, seminars, workshops, and conferences.

Facilities include presses and other equipment for research on the various printing processes, and laboratory facilities for studies on paper, ink, and instrumentation.

GRAVURE RESEARCH INSTITUTE, INC.

0922 22 Manhasset Ave.
Port Washington, Long Island, N.Y. 11050
Tel: (516) 883-6670

AREAS OF INTEREST: Graphic arts technology and printing industry in general, with particular coverage of gravure processes and equipment; instrumentation.

HOLDINGS: 200 books; 2,000 journals; 1,100 reports; patents, films, photos, data.

PUBLICATIONS: *GRI Newsletter* (quarterly); reports, proceedings, standards and specifications, data handbooks.

INFORMATION SERVICES: Provides reference, consulting, and translating services to sponsor members and other graphic arts research institutes only.

GREAT LAKES BASIN COMMISSION

Great Lakes Basin Library

0923 Great Lakes Basin Commission
220 East Huron St.
Ann Arbor, Mich. 48108
Tel: (313) 763-3590

AREAS OF INTEREST: Water and land resources regional planning, with emphasis on all aspects of water, particularly the water problems and resources of the Great Lakes and the bordering eight States.

HOLDINGS: 4,000 reports; 1,000 books; over 200 periodical titles; 500 maps; 2,000 pamphlets and reprints.

PUBLICATIONS: Bibliographies.

INFORMATION SERVICES: Answers inquiries; provides limited reference and referral services; makes interlibrary loans and provides duplication services to participating State and Federal agencies; permits onsite use of collection.

GREAT LAKES COMMISSION

0924 5104 IST Bldg.
2200 North Campus Blvd.
Ann Arbor, Mich. 48105
Tel: (313) 665-9135

AREAS OF INTEREST: Conservation, development, and use of water resources of the Great Lakes Basin, including the protection and regulation of fisheries, pollution control, general navigation and navigational aids, stabilization of water levels, shore erosion, diversion of water into and from the Lakes, foreign commerce on the Lakes, hydroelectric power, and recreational uses of the Basin.

HOLDINGS: Information and statistics on water-related subjects of concern to the States and localities in the Great Lakes Basin and adjacent areas (the Commission serves as a clearinghouse). Reference files contain reports, documents, newsletters, and newspaper articles.

PUBLICATIONS: The *Great Lakes News Letter* (6 issues a year); *Great Lakes Research Checklist*, listing studies and documents pertaining to Great Lakes research, prepared twice a year in cooperation with the Great Lakes Research Division, Institute of Science and Technology, University of Michigan; *Minutes of Great Lakes Commission Meetings*; *Summary of State and Provincial Regulations Relating to Sport Fishing in the Great Lakes* (annual); *Report to the States* (biennial); special studies, reviews, reports.

INFORMATION SERVICES: Answers brief inquiries; makes referrals.

GREELEY AND HANSEN, ENGINEERS

0925 14 East Jackson
Chicago, Ill. 60604
Tel: (312) 939-5850

AREAS OF INTEREST: Engineering aspects of water supply, treatment, and distribution; sewage treatment, sewers, industrial wastes, storm water, and drainage; refuse disposal.

HOLDINGS: Books, journals, reports, abstracts, maps, charts, photos, standards and specifications, bibliographies, brochures, manufacturers' catalogs.

PUBLICATIONS: Reports, standards and specifications, plans.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services for fee; permits onsite use of collection.

GRINDING WHEEL INSTITUTE

0926 2130 Keith Bldg.
Cleveland, Ohio 44115
Tel: (216) 241-7333

AREAS OF INTEREST: Grinding wheel; abrasives.

HOLDINGS: Reports, standards and specifications, pamphlets, motion pictures, data.

INFORMATION SERVICES: Answers inquiries; makes referrals.

GRUMMAN AEROSPACE CORP.

Corporate Library Services

0927 Grumman Aerospace Corp.
Plant 35
Bethpage, Long Island, N.Y. 11714
Tel: (516) 575-1324

AREAS OF INTEREST: Aeronautics; astronautics; shipbuilding; transportation; oceanography; deep submersibles.

HOLDINGS: 20,000 books; 1,500 journals; 50,000 reports; 2,000 bibliographies; 8,000 preprints and reprints; 2,000 maps and charts; 400,000 microfiche; internal reports.

PUBLICATIONS: *Periodical List and Catalog*; acquisition list of documents.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, translating, literature-searching, and duplication services; lends materials; permits onsite reference by appointment.

GUILD FOR RELIGIOUS ARCHITECTURE

0928 1346 Connecticut Ave. NW., Room 804
Washington, D.C. 20036
Tel: (202) 296-2997

AREAS OF INTEREST: Religious architecture; church architecture.

HOLDINGS: 3,500 color slides of religious buildings.

PUBLICATIONS: *Faith and Form* (biannual); pamphlets.

INFORMATION SERVICES: Makes referrals; promotes conferences and seminars; sponsors a traveling exhibition of religious architecture; lends slide collection for fee; permits onsite reference to slide collection.

GULF COAST RESEARCH LABORATORY

Library

0929 Gulf Coast Research Laboratory
P.O. Box AG
Ocean Springs, Miss. 39564
Tel: (601) 875-2244, 875-2245, or 875-2246

AREAS OF INTEREST: Oceanography; marine biology; ecology; botany; general zoology; invertebrate zoology; anatomy; physiology; ornithology; geology; ichthyology; fisheries; biochemistry; microbiology; heart muscle research; statistics and computer science.

HOLDINGS: 3,274 volumes; 12,000 reprints; reports.

PUBLICATIONS: Gulf Research Reports (not available to individuals).

INFORMATION SERVICES: Answers inquiries through letters; makes interlibrary loans; permits onsite reference; provides complimentary reprints to researchers in the field.

GULF RESEARCH AND DEVELOPMENT CO. LIBRARY

0930 P.O. Drawer 2038
Pittsburgh, Pa. 15230
Tel: (412) 362-1600

AREAS OF INTEREST: Petroleum; chemistry; engineering; geology; geophysics.

HOLDINGS: 60,000 volumes; 950 journal and other serial subscriptions.

PUBLICATIONS: Acquisitions list, state-of-the-art review, bibliography (all for internal distribution only).

INFORMATION SERVICES: Makes interlibrary loans to special libraries in the area; permits onsite reference by special arrangement.

Facilities include an IBM 360/85 computer and microfilm and microfiche reader-printers.

GULF SOUTH RESEARCH INSTITUTE

Library

0931 Gulf South Research Institute
Taylor Bldg., Suite 414
Baton Rouge, La. 70801
Tel: (504) 348-5911 Ext. 46

AREAS OF INTEREST: Louisiana economy; physical sciences; engineering, including water and air pollution engineering; life sciences; human resources; oceanography; toxicology; automatic data processing applications.

HOLDINGS: 1,000 books; 250 periodical titles; 500 reports.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference, consulting, literature-searching, and duplication services; makes interlibrary loans; permits onsite use of collection. There is a charge for duplication services and postage.

THE GUMMED INDUSTRIES ASSOCIATION, INC.

0932 415 Lexington Ave.
New York, N.Y. 10017
Tel: (212) 986-8213

AREAS OF INTEREST: Gummed tapes; gummed label papers.

HOLDINGS: Books, reports, standards and specifications, project records, pamphlets, reprints, clippings, data.

INFORMATION SERVICES: Answers inquiries; makes referrals.

HAGANS CLOCK MANOR

Research Library Division

0933 Hagans Clock Manor
P.O. Box 758
Evergreen, Colo. 80439

Location:

Bergen Park
Evergreen, Colo.
Tel: (303) 674-5464

AREAS OF INTEREST: Horology; time recording instruments, including clocks, watches, music boxes, and "automats"; antiques; time.

HOLDINGS: Books, journals, reports, films, photos, manuscripts, slides.

PUBLICATIONS: *American Horologist and Jeweler* (monthly).

INFORMATION SERVICES: Provides reference and consulting services; permits onsite reference.

HALCON INTERNATIONAL, INC.

Information Center

0934 Halcon International, Inc.
2 Park Ave.
New York, N.Y. 10016
Tel: (212) 689-1222

AREAS OF INTEREST: Chemistry, including chemical processes, engineering, and organic chemistry; petroleum; plastics; metallurgy; construction materials.

HOLDINGS: 4,000 books; 1,000 reports; 2,000 pamphlets; 100 microfilms; 13,000 patents.

PUBLICATIONS: Bibliographies.

INFORMATION SERVICES: Answers inquiries as time permits; makes referrals; lends materials; permits limited onsite use of collection.

HALFF AND REID

0935 3636 Lemmon Ave., Room 304
Dallas, Tex. 75219
Tel: (214) 526-8309

AREAS OF INTEREST: Environmental and sanitary engineering; water supply; saline water conversion; air pollution control; increase of food supply by reuse of waste products.

HOLDINGS: Technical reports, periodicals, newsletters, pamphlets, reprints, publication lists, patents.

PUBLICATIONS: Brochures.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services for fee; prepares analyses and evaluations; permits onsite use of literature collection.

HAMILTON WATCH CO. LIBRARY

0936 Wheatland Ave.
Lancaster, Pa. 17603
Tel: (717) 394-7161 Ext. 383

AREAS OF INTEREST: Horology; engineering; mathematics; physics; chemistry; metallurgy.

HOLDINGS: 3,900 books and bound journals; 150 current subscriptions to periodicals; reports, patents, films, photos, standards and specifications.

PUBLICATIONS: Accessions list.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference.

HAMMERMILL PAPER CO.

0937 P.O. Box 1440
Erie, Pa. 16512

Location:

East Lake Rd.
Erie, Pa.
Tel: (814) 456-8811

AREAS OF INTEREST: Pulp; paper manufacturing; paper processing.

HOLDINGS: 900 reports; 250 standards and specifications; 875 books; 100 journals; abstracts, indexes, publication lists, bibliographies, pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; makes interlibrary loans; permits onsite use of literature collection.

The Company has complete pulp and paper testing facilities and pulp and paper pilot plant equipment.

HAMPTON ROADS MARITIME ASSOCIATION, INC.

0938 127-129 Bank St.
Norfolk, Va. 23510
Tel: (703) 622-2639

AREAS OF INTEREST: Shipping; port facilities; stevedoring; warehousing; labor-management relations; arbitration; negotiation.

HOLDINGS: Data, photos, charts.

PUBLICATIONS: *The Ports of Greater Hampton Roads* (annual); directories, news journal, reports.

INFORMATION SERVICES: Answers brief inquiries; provides consulting and reference services to members and prospective members only.

HARDIN-SIMMONS UNIVERSITY

Department of Geology

0939 Hardin-Simmons University
Abilene, Tex. 79604
Tel: (915) 677-7281

AREAS OF INTEREST: Rocks; minerals; fossils; economic resources.

HOLDINGS: Specimens, samples, photos, reports, journals, maps, charts, bibliographies.

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes referrals; permits onsite reference.

HARDWOOD DIMENSION MANUFACTURERS ASSOCIATION

0940 3813 Hillsboro Rd.
Nashville, Tenn. 37215
Tel: (615) 269-3254

AREAS OF INTEREST: Hardwood dimension parts, including manufacture and standards.

HOLDINGS: Books, pamphlets, motion pictures, standards and specifications.

PUBLICATIONS: *Grading Rules for Hardwood Dimension Parts, Stair Treads and Risers and Interior Trim and Mouldings*; *Cost Accounting Controls for the Hardwood Parts Industry*; *Shipping Weights of Kiln Dried Hardwood Lumber--By Species*.

INFORMATION SERVICES: Answers brief inquiries.

HARDWOOD PLYWOOD MANUFACTURERS ASSOCIATION

0941 2310 South Walter Reed Dr.
Arlington, Va. 22206
Tel: (703) 671-6262

AREAS OF INTEREST: Hardwood plywood, including manufacture, testing, inspecting, selling, and use.

HOLDINGS: 700 slides; 800 books; 65 monthly journals; reports, films, photos.

PUBLICATIONS: *Hardwood Plywood Interim Industry Standard*; *Story of Hardwood Plywood*; *Where to Buy Hardwood Plywood*; *Where to Buy Veneer*; *Architectural Sales Aids*; *Monthly Members' Bulletin*; proceedings.

INFORMATION SERVICES: Answers inquiries. Association members and Government agencies are given preference in obtaining services.

The Association has laboratory facilities equipped for tests for glue bond, moisture content, specific gravity, nonvolatile solids, ash determination, flamespread index determinations, and finishes.

HARRY DIAMOND LABORATORIES

see Army, Department of the. Army Materiel Command

HARVARD RADIO ASTRONOMY STATION

0942 Fort Davis, Tex. 79734
Tel: (915) 426-3201

AREAS OF INTEREST: Radio astronomy; solar physics.

HOLDINGS: 480 books and bound journals; 6,000 reprints; project records, etc.

INFORMATION SERVICES: Answers inquiries; permits onsite use of literature and film-record collection.

HARVARD UNIVERSITY

Chemistry Library

0943 Harvard University
12 Oxford St.
Cambridge, Mass. 02138
Tel: (617) 495-4079

AREAS OF INTEREST: Chemistry, excluding applied chemistry; biochemistry; chemical physics.

HOLDINGS: 9,000 books; 12,000 volumes of bound periodicals; 23,000 pamphlets (chiefly foreign dissertations); 250 journals currently received.

INFORMATION SERVICES: Makes interlibrary loans; provides duplication (self-service Xerox) services; permits limited access to collection by accredited outsiders.

Department of Geological Sciences

0944 Harvard University
24 Oxford St.
Cambridge, Mass. 02138
Tel: (617) 868-7600 Ext. 2351

AREAS OF INTEREST: Geology; geophysics; geochemistry.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Geological Sciences Library

0945 Harvard University
24 Oxford St.
Cambridge, Mass. 02138
Tel: (617) 495-2029

AREAS OF INTEREST: Structural and economic geology; seismology; geophysics; geomorphology; mineralogy; crystallography; petrography.

HOLDINGS: 19,175 books; 300 journal titles; U.S. Geological Survey, U.S. Bureau of Mines, and Canadian Geological Survey publications; theses, geological maps. Foreign material is in Russian, German, and French.

INFORMATION SERVICES: Makes interlibrary loans of books; permits onsite reference.

George David Birkhoff Mathematical Library

0946 Harvard University
2 Divinity Ave.
Cambridge, Mass. 02138
Tel: (617) 868-7600 Ext. 2147

AREAS OF INTEREST: Arithmetic; theory of numbers; algebra; geometry; differential geometry; trigonometry; calculus; calculus of variations; differential equations; mechanics; hydromechanics; analysis; fourier's series; probability; statistics; topology; logic; mathematical physics.

HOLDINGS: 4,800 volumes; 84 periodicals currently received.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference.

Gordon McKay Library of Engineering and Applied Physics

0947 Harvard University
Pierce Hall
Cambridge, Mass. 02138
Tel: (617) 868-7600 Ext. 2836

AREAS OF INTEREST: Applied mathematics, including mathematical methods of operations research, numerical analysis, automatic data processing, and computing machines; electrical and electronic engineering, including information and communication theory, electromagnetism, electron physics, radiation, wave propagation, solid state physics, semiconductor technology, masers, and lasers; nuclear engineering, including reactor technology; mechanics; aerodynamics and hydrodynamics; thermodynamics; heat transfer; mechanical engineering, including structural mechanics, elasticity, stresses, and shock waves; soil mechanics, including soil testing, foundation engineering, and engineering geology; sanitary and public health engineering, including sanitary chemistry, water analysis and purification, and sanitary bacteriology; metallurgy, including foundry engineering, crystallography, and powder metallurgy; materials; meteorology; physical oceanography.

HOLDINGS: 55,000 books; 590 journals; 128,550 reports, including a complete file of technical reports on research conducted at the University in the above listed areas of interest, and special collections of aeronautical and astronautical reports. The Library serves as a depository for unclassified U.S. Atomic Energy Commission reports.

INFORMATION SERVICES: Permits onsite reference; makes interlibrary loans; provides reprints of journal articles prepared by members of the Division of Engineering and Applied Physics.

Guggenheim Center for Aerospace Health and Safety

0948 Harvard School of Public Health
665 Huntington Ave.
Boston, Mass. 02115
Tel: (617) 734-3300 Ext. 550

AREAS OF INTEREST: Human factors engineering; biotechnology and ergonomics; designing equipment in terms of human abilities and limitations; man-machine systems and systems analysis; visual and auditory presentation of information; design of controls; layout of work places and arrangements of groups of men and machines; industrial and transportation safety, including design for ease of maintenance; effects of environment on human performance; anthropometry; including static and dynamic body measurements for transport vehicles and industrial working areas; environmental standards for aircraft and space vehicles; measurement of the effects of toxic agents on performance, including carbon monoxide (from engine exhaust, fire, and cigarette smoking); oxygen lack at altitude; carbon dioxide; drugs that impair oxidation; alcohol in relation to safety and high altitude.

HOLDINGS: 500 books; 75 periodicals; 2,500 indexes; graphs, tables, reports, slides, bibliographies, newsletters.

PUBLICATIONS: Books, technical and research reports, bibliographies.

INFORMATION SERVICES: Answers inquiries; provides reference, consulting, and bibliographic services; permits onsite use of collection.

Harvard Water Program

0949 Harvard University
9 Bow St.
Cambridge, Mass. 02138
Tel: (617) 868-7600 Ext. 2026

AREAS OF INTEREST: Economic, engineering, and political aspects of the design of water resource systems, with emphasis on the economics of water supply, water quality, systems analysis, and water quality management.

HOLDINGS: Literature and data relevant to the Program.

INFORMATION SERVICES: Answers inquiries and makes referrals to other organizations or specialists without charge.

Phillips Library

0950 Harvard College Observatory
60 Garden St.
Cambridge, Mass. 02138
Tel: (617) 868-7600 Ext. 2683

AREAS OF INTEREST: Astronomy; astrophysics.

HOLDINGS: 500,000 astronomical photoplates; books, journals, and reports, including material in Russian, French, and German.

PUBLICATIONS: *Harvard Announcement Cards* (available by subscription), containing information on transient astronomical phenomena, such as comets, novae, and flare stars; research reports, theses, journal articles. An annual bibliography of Observatory publications is available on request.

INFORMATION SERVICES: Permits onsite use of all books, journals, and reports, most of which are also available on interlibrary loans.

Physics Research Library

0951 Harvard University
Jefferson Laboratory, Room 450
Cambridge, Mass. 02138
Tel: (617) 495-2878

AREAS OF INTEREST: Pure physics.

HOLDINGS: 11,000 books and journals.

INFORMATION SERVICES: Permits onsite reference.

Statistics Library

0952 Harvard University
2 Divinity Ave.
Cambridge, Mass. 02138
Tel: (617) 868-7600 Ext. 2583 or 2584

AREAS OF INTEREST: Statistics; statistical theory; applied statistics.

HOLDINGS: A collection of books and journals.

INFORMATION SERVICES: Permits onsite reference.

HAVERFORD COLLEGE

Strawbridge Observatory

0953 Haverford College
Haverford, Pa. 19041
Tel: (215) 649-9600

AREAS OF INTEREST: Astronomy; astrophysics.

HOLDINGS: 1,200 books; 1,100 periodicals.

INFORMATION SERVICES: Answers brief inquiries; makes interlibrary loans.

HAWAII AGRICULTURAL EXPERIMENT STATION

see University of Hawaii

HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES

Division of State Parks

0954 Hawaii Department of Land and Natural Resources
465 South King St.
Honolulu, Hawaii 96809
Tel: (808) 548-2211 Ext. 102 or 111

AREAS OF INTEREST: Park planning and development, including inventory of outdoor recreational resources.

HOLDINGS: Reports.

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Provides consulting services.

Division of Water and Land Development

0955 Hawaii Department of Land and Natural Resources
P.O. Box 373
Honolulu, Hawaii 96813

Location:

465 South King St.
Honolulu, Hawaii
Tel: 50511 Ext. 373

AREAS OF INTEREST: Water and land development projects; engineering geology; collection, compilation, and analysis of hydrologic data, including rainfall, evapotranspiration, wind, temperature, solar radiation, streamflow, and ground water; exploratory water well drilling; areal water resources investigations; comprehensive water resources planning; ground-water use regulation; artesian well sealing; flood damage; flood plain zoning and mapping; watershed and flood control projects; Statewide coordination of water resources and flood control projects; planning, design, and construction of water development projects, including irrigation and domestic water systems.

HOLDINGS: Rainfall data and flood damage data, plans and specifications, drill cores and cuttings, water and land development reports, other technical publications.

PUBLICATIONS: *Bulletins*, covering islandwide or Statewide subjects; *Reports*, limited to a specific subject, such as a project study, research paper, or basic data compilation; *Circulars*, containing preliminary introductory studies; *Flood Plain Maps*, outlining flood hazard areas; construction standards, plans and specifications, periodic newsletter. A publications list is available.

INFORMATION SERVICES: Answers general and technical inquiries; makes referrals.

HAWAII DEPARTMENT OF REGULATORY AGENCIES

Fire Marshal Division

0956 Hawaii Department of Regulatory Agencies
P.O. Box 541
Honolulu, Hawaii 96809

Location:

1010 Richards St.
Honolulu, Hawaii
Tel: (808) 547-5448 or 547-5455

AREAS OF INTEREST: Regulations relating to the safety of life and property from fire.

HOLDINGS: 1,050 standards and specifications; 80 books; 370 data compilations; technical reports, maps, charts, periodicals, newsletters, pamphlets, clippings.

PUBLICATIONS: Standards and specifications.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; lends some materials; permits onsite use of collection.

Public Utilities Commission

0957 Hawaii Department of Regulatory Agencies
1010 Richards St.
Honolulu, Hawaii 96813
Tel: (808) 548-2211 Ext. 218

AREAS OF INTEREST: Transportation and public utility regulation.

HOLDINGS: 20 data compilations; 500 books; 40 periodicals; 2,000 project records; 700 maps and charts; 600 technical reports; 140 reviews; 90 abstracts and indexes; 3,600 pamphlets; 3,600 clippings; 1,800 press releases; 40 publication lists; 10 standards and specifications; city and neighbor island directories; statistical computations.

PUBLICATIONS: General orders prescribing rules, regulations, and standards for public utilities and common and contract carriers in Hawaii.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; prepares analyses and evaluations; permits onsite use of collection.

HAWAII DEPARTMENT OF TRANSPORTATION

0958 869 Punchbowl St.
Honolulu, Hawaii 96813
Tel: (808) 540-5[illegible]

AREAS OF INTEREST: Highway planning.

HOLDINGS: Data.

PUBLICATIONS: Nontechnical reports.

INFORMATION SERVICES: Provides consulting and reference services. Publications are disseminated to State highway departments and Federal Government agencies free, and to the public for a fee.

HAWAII INSTITUTE OF GEOPHYSICS

see University of Hawaii

HAWAII STATE LIBRARY

Labor, Management, and Technology Unit

0959 Hawaii State Library
478 South King St.
Honolulu, Hawaii 96813
Tel: (808) 533-6081

AREAS OF INTEREST: Science and technology; civil, mechanical, and safety engineering.

HOLDINGS: 8,500 books; 156 journals and periodicals; ASTM standards; some ASME standards; codes.

INFORMATION SERVICES: Provides reference services; makes referrals; permits onsite reference.

HAWAII TESTING LABORATORY, INC.

0960 1821 Republican St.
Honolulu, Hawaii 96819
Tel: 852-248

AREAS OF INTEREST: Soil mechanics; concrete (including asphaltic concrete) design and control; subsurface investigation; fill control; water pollution; physical testing of materials; limited chemical analysis.

HOLDINGS: 200 samples (drill cores, standard reagents); 110 testing instruments and devices; 160 books; 140 periodicals; 250 slides; 110 photos; 220 technical reports; 110 maps and charts; 250 project records; 140 periodicals; bibliographies, standards and specifications, reviews, pamphlets, graphs and tables, abstracts and indexes, newsletters, clippings, magnetic tapes, publication lists.

INFORMATION SERVICES: Answers brief inquiries free; makes referrals; provides consulting services for fee; lends technical reports and standards and specifications; permits onsite use of collection.

HAWAIIAN ACADEMY OF SCIENCE

0961 Bernice P. Bishop Museum
1355 Kalihi St.
Honolulu, Hawaii 96819
Tel: 847-3511

AREAS OF INTEREST: General sciences; pineapples.

HOLDINGS: Reports.

PUBLICATIONS: *Proceedings of the Hawaiian Academy of Science* (annual).

INFORMATION SERVICES: Makes referrals; permits onsite use of collection; sponsors science fairs, visiting scientists' programs, student science seminars, and semiannual symposia on the impact of science on society and on problems of common interest to scientists and laymen; through the Inter-Society Science Education Council, serves local sections of the various national scientific and technical societies as a clearinghouse for science education activities.

HAYES INTERNATIONAL CORP.

Engineering Technical Library

0962 Hayes International Corp.
P.O. Box 2287
Birmingham, Ala. 35201

Location:

Municipal Airport
Birmingham, Ala.
Tel: (205) 592-0011

AREAS OF INTEREST: Scientific and engineering research; electronics; airborne targets; training, test, and special equipment; space vehicle and missile systems; maintenance and modification of military equipment.

HOLDINGS: 1,100 books; 200 journals; 10,800 reports; patents, films, photos, maps, charts, data.

PUBLICATIONS: Technical reports, conference proceedings, standards and specifications, directory.

INFORMATION SERVICES: Lends materials; permits onsite use of collection.

HEALTH, EDUCATION, AND WELFARE, DEPARTMENT OF

Public Health Service

Environmental Health Service

ARCTIC HEALTH RESEARCH LABORATORY

0963 U.S. Public Health Service
College, Alaska 99735
Tel: (907) 479-2211

AREAS OF INTEREST: Arctic and sub-Arctic aspects of environmental health engineering, including water supply, storage, and treatment, solid waste collection and disposal, air quality and pollution control, individual household waste disposal systems, food preservation, and native housing.

HOLDINGS: 1,241 books; 61 engineering journals; 943 maps; 2,437 slides.

PUBLICATIONS: Technical reports. A list of publications is available.

INFORMATION SERVICES: Answers inquiries; provides consulting services to Federal, State, and local agencies; performs analysis of water quality; presents talks and lectures on current research.

Facilities include a chemistry laboratory for water and air quality analysis containing gas chromatograph, spectrophotometers, etc., and an engineering research laboratory with facilities for controlled temperature studies and equipment to build and instrument field research.

BUREAU OF COMMUNITY ENVIRONMENTAL MANAGEMENT

0964 U.S. Public Health Service
222 East Central Parkway
Cincinnati, Ohio 45202
Tel: (513) 684-2341

AREAS OF INTEREST: Relationship of housing hygiene codes and enforcement to health; emergency water supply sources; individual water supply systems (for dwellings, farms, recreational or tourist accommodations, and other installations without access to public water systems); health aspects of swimming pool water quality.

HOLDINGS: Technical reports, standards and specifications, technical reference materials.

PUBLICATIONS: *Food Service Sanitation Manual*; *Environmental Health Practice in Recreational Areas*; *Grade A Pasteurized Milk Ordinance, 1965 Recommendations of the United States Public Health Service*; *Manual of Septic Tank Practice*; *Environmental Health Planning Guide*; *Environmental Health Guide for Travel Trailer Parking Areas, with a Recommended Ordinance*; *APHA-PHS Recommended Housing Maintenance and Occupancy Ordinance*.

INFORMATION SERVICES: Answers inquiries; provides consulting services on individual water supply system problems to Federal, State, and local health agencies, national associations, and individuals.

BUREAU OF OCCUPATIONAL SAFETY AND HEALTH

Scientific Reference Service

0965 Bureau of Occupational Safety and Health
U.S. Public Health Service
1014 Broadway
Cincinnati, Ohio 45202
Tel: (513) 684-2682

AREAS OF INTEREST: Occupational health; industrial hygiene; toxicology and hazards of industrial materials and conditions; chemical, engineering, nursing, medicinal, and physiological aspects of occupational health hazards; prevention and treatment of injurious effects on health; poisonous gases, vapors, mist, and dust; radiation; heat and humidity; noise; effects of pesticides.

HOLDINGS: 2,450 books; 3,700 bound volumes of journals; 119 periodical titles; 20,500 items in vertical file of reports, bulletins, pamphlets, company literature, etc.; 600 subject heading special files; slides, filmstrips, films.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, reference, literature-searching, and abstracting services; permits onsite use of collection.

BUREAU OF RADIOLOGICAL HEALTH

0966 U.S. Public Health Service
12720 Twinbrook Parkway
Rockville, Md. 20852
Tel: (301) 443-3516

AREAS OF INTEREST: Radiological health; X-rays and radioisotopes in medicine and industry; health hazards associated with exposure to ionizing radiation; X-radiations associated with consumer electronic products; radioactivity; measurement of environmental radiation levels; nuclear medicine; public health aspects of nuclear energy; nuclear power plants; radiation protection; radioactive waste disposal; radioactive materials; transportation of radioactive materials; programs in radiobiological effects; environmental surveillance and control; standards and intelligence; assistance to States in compliance and control; training and manpower development in the radiological health field; medical and occupational radiation hazards; X-ray exposure control and research grants.

HOLDINGS: About 5,000 books, 6,000 bound journals, 5,000 technical reports, and 400 technical medical journals; microfiche files. The Bureau maintains a coordinate index and a KWIC index to its areas of interest.

PUBLICATIONS: The Bureau publishes its findings in *Radiological Health Data and Reports* (a monthly publication), Public Health Service numbered reports, appropriate scientific journals, and technical report series for Bureau divisions, offices, and laboratories.

INFORMATION SERVICES: Answers inquiries; provides information to State health offices, Federal and State agencies, scientific organizations, and industries; provides reference services; makes interlibrary loans; permits onsite use of collection by qualified researchers.

BUREAU OF WATER HYGIENE

0967 U.S. Public Health Service
222 East Central Parkway
Cincinnati, Ohio 45202
Tel: (513) 684-3571

AREAS OF INTEREST: Public drinking water supply (source, storage, protection, treatment, distribution, plumbing); water quality; toxicological evaluations of chemicals and materials used in or with water; health aspects of water pollution and water resources.

PUBLICATIONS: *Public Health Service Drinking Water Standards*; manuals of recommended practice such as *Public Drinking Water Supply Evaluation*, *Evaluation of Water Laboratories*, and *Water Supply and Plumbing Cross-Connection*; technical reports, data compilations, list of approved materials for water treatment, i.e., coagulant aids.

INFORMATION SERVICES: Answers inquiries; provides consulting services; analyzes samples from selected public water supplies for Government agencies and State departments of health.

Analytical Reference Service

0968 U.S. Public Health Service
Robert A. Taft Sanitary Engineering Center Bldg.
4676 Columbia Parkway
Cincinnati, Ohio 45213
Tel: (513) 871-1820 Ext. 293

AREAS OF INTEREST: Evaluation methods of analysis in solid wastes, water supply, and food (including milk and shellfish).

HOLDINGS: Analytical reports of completed studies.

PUBLICATIONS: Reports of studies of methods of analysis (available on request).

INFORMATION SERVICES: Answers inquiries; makes referrals; consults and cooperates with agencies throughout the United States and the world in studies to evaluate laboratory methods used in environmental health.

ENVIRONMENTAL CONTROL ADMINISTRATION LIBRARY

0969 U.S. Public Health Service
5555 Ridge Ave.
Cincinnati, Ohio 45213
Tel: (513) 684-4303

AREAS OF INTEREST: Water pollution and its control, milk and food sanitation, air pollution, radiological health, and training pertinent to these areas.

HOLDINGS: 50,000 items, including 18,000 bound volumes of journals, 800 current journal subscriptions, depository collection of AEC reports, and a pamphlet collection.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services; makes interlibrary loans; permits onsite use of collection.

NATIONAL AIR POLLUTION CONTROL ADMINISTRATION

Office of Technical Information and Publications

Air Pollution Technical Information Center

0970 1030 Wade Ave.
Raleigh, N.C. 27605
Tel: (919) 782-2470 Ext. 42

AREAS OF INTEREST: Technical literature resulting from research activities in air pollution throughout the world; basic data on chemical, physical, and biological effects of varying air quality and other information pertaining to air pollution and its prevention and control.

HOLDINGS: Approximately 10,000 technical articles and reports relating to or produced from air pollution technology, including foreign and domestic journal articles and reports from Government clearinghouses. Sources providing report literature are Defense Documentation Center (DDC), Clearinghouse for Federal Scientific and Technical Information (CFSTI), Engineering Index (EI), National Aeronautics and Space Administration (NASA), American Petroleum Institute (API), National Library of Medicine (NLM), Science Information Exchange (SIE), and others. APTIC also maintains a reference library which houses many technical journals and other reference material of interest to air pollution researchers.

PUBLICATIONS: *APCA Abstracts* is published monthly by the Air Pollution Control Association for the National Air Pollution Control Administration. Input to the publication is provided by the Franklin Institute through a contractual agreement with the National Air Pollution Control Administration, by APTIC, and by APCA. A bulletin covering current APTIC accessions is published by APTIC on a semimonthly basis. This bulletin contains the bibliographic citations of documents accessioned by APTIC over each two-week period, and is distributed to about 1,200 users.

INFORMATION SERVICES: Answers requests for technical information by providing requesters with abstracts, extracts, or citations from its file; distributes technical NAPCA/PHS publications to an extensive list of users routinely and upon request. At the present time, these services are provided free to individuals and organizations.

Health Services and Mental Health Administration

HEALTH FACILITIES PLANNING AND CONSTRUCTION SERVICE

0971 Health Services and Mental Health Administration
U.S. Public Health Service
5600 Fishers Lane
Rockville, Md. 20852
Tel: (301) 443-1950

AREAS OF INTEREST: Hospitals and health facilities, including design, construction, modernization, functional planning, State planning for facilities, organization and administration of various departments, control of environment, health education aspects, statistics (primarily related to the Hill-Burton Hospital Construction Program), and hospital and nursing home equipment.

HOLDINGS: 500 reports; 500 books.

PUBLICATIONS: Guidelines, bibliographies, reports, books, pamphlets, brochures. A publications list is available.

INFORMATION SERVICES: Answers inquiries regarding grants-in-aid to States for constructing and equipping health facilities; provides consulting services, primarily to health facility sponsors and administrators; disseminates publications.

HELICAL WASHER INSTITUTE

0972 7608 Sweetbriar, Route 1
Orchard Lake, Mich. 48034
Tel: (313) 363-7300

AREAS OF INTEREST: Helical springlock washers; mechanical fasteners.

HOLDINGS: Project records, technical reports, standards and specifications, graphs, tables, periodicals, reprints, pamphlets, news releases, clippings, data.

PUBLICATIONS: Technical reports, standards and specifications, data compilations.

INFORMATION SERVICES: Answers inquiries.

HELICOPTER ASSOCIATION OF AMERICA

0973 Westchester County Airport, Hangar D
White Plains, N.Y. 10604
Tel: (914) 949-1600

AREAS OF INTEREST: Commercial helicopters, including use and operation, pilots and mechanics, renting, leasing, hiring, and contracting for helicopters.

PUBLICATIONS: Information on Association matters appears monthly in *Rotor & Wing* magazine and *Rotor News*.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and consulting services.

HERCULES INC.

Hercules Research Center

Technical Information Division

0974 Hercules Research Center
Wilmington, Del. 19899
Tel: (302) 994-4401 Ext. 236

AREAS OF INTEREST: Chemistry; physics; physical chemistry; chemical engineering; cellulose products; explosives; naval stores; papermaking; synthetic resins; polymers; coatings; plastics; elastomers; food chemistry; pests and pesticides.

HOLDINGS: 30,000 books and bound journals; 700 journal subscriptions; 350,000 reports.

PUBLICATIONS: Journal literature, patent bulletins, bibliographies, reports, critical reviews, computer printouts of indexes. The collection is restricted to Hercules scientists.

INFORMATION SERVICES: Makes interlibrary loans of nonproprietary materials.

Facilities include IBM 29, 82, 870, and 360/50 systems, and MTST and ATS.

HIGH PRESSURE DATA CENTER

see Brigham Young University

HIGH VOLTAGE ENGINEERING CORP.

0975 South Bedford St.
Burlington, Mass. 01803
Tel: (617) 272-1313

AREAS OF INTEREST: Particle acceleration and its application to research in nuclear physics, biophysics, radio biology, radiation chemistry, electron beam processing for industrial products and irradiated products, neutron activation analysis, radioisotope production, solid state physics, radiation damage, aerospace environment simulation, micrometeoroid simulation, industrial processing, and cancer therapy; accelerators (primarily of the Van de Graaff microwave linear and electromagnetic type); generation, transformation, and transmission of very high voltages; maintenance of high voltage gradients in gases, liquids, solids, and in vacuum, and the processes and products that result from this technology; insulating core transformers (ICT); compressed-gas-insulated transmission lines for electric power industry.

HOLDINGS: 2,160 books and bound periodicals; 1,100 reports; 900 reprints.

PUBLICATIONS: Brochures, proceedings, journals.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite use of literature collection by librarians.

HIGHWAY SAFETY RESEARCH INSTITUTE LIBRARY

see University of Michigan

HIGHWAY TRAFFIC SAFETY CENTER

see Michigan State University

HIGHWAY USERS FEDERATION FOR SAFETY AND MOBILITY

0976 200 Ring Bldg.
1200 18th St. NW.
Washington, D.C. 20036
Tel: (202) 338-3115

AREAS OF INTEREST: Research and education for sound highway transportation development; highway safety; highway financing; traffic management; automobile law; training in such areas as safety education administration, traffic engineering, highway engineering, traffic police supervision, motor fleet supervision, and traffic safety administration; high school driver education; auto and tire dealer and association traffic safety programs; public support for safe vehicle condition.

HOLDINGS: 5,800 books; 10,500 journals; 2,000 reports; 2,000 pamphlets; 9,000 photos; 236 maps and charts; 1,300 graphs and tables; 20 standards and specifications; 100 abstracts and indexes; 13,500 clippings; manuals, posters and other display materials, newsletters, reprints, publication lists, data.

PUBLICATIONS: *Federation Reporter* (monthly); *Highway Users Magazine* (quarterly); *Highway Users in Action* (monthly); *Alert Bulletins* (irregular); *Dealer Council Highlights* (bimonthly); *Vehicle Safety-Check News* (during April-June program period); *Motor Vehicle Law Reporting Series*; annual report, annual legislative summary, state-of-the-art reviews, reports, pamphlets, posters, safety promotion kits.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and bibliographic services to members; assists Government agencies and other organizations operating in the public interest in programs to increase the safety and efficiency of highway traffic; provides assistance to States on motor vehicle inspection; cooperates with the public information media in acquainting the public with the scope and urgency of the traffic accident problem and with civic groups in the development of citizen support for sound programs of official action aimed at eliminating highway transportation deficiencies; provides statistical results of national vehicle safety-check and seat belt installation and use poll; permits onsite reference. Services generally are provided free, although extensive assistance and provision of materials may necessitate a nonprofit fee.

HOBART TECHNICAL CENTER

John H. Blankenbuehler Memorial Library

0977 Hobart Technical Center
Trade Square
Troy, Ohio 45373
Tel: (513) 335-7141

AREAS OF INTEREST: Welding engineering.

HOLDINGS: 1,430 books; 108 periodical titles; reports, standards and specifications, bibliographies, abstracts, data.

INFORMATION SERVICES: Makes direct and interlibrary loans; provides duplication services; permits onsite use of collection.

HOFFMAN-LAROCHE, INC.

Scientific Library

0978 Hoffman-LaRoche, Inc.
Kingsland St.
Nutley, N.J. 07110
Tel: (201) 235-3091

AREAS OF INTEREST: Drugs; pharmaceutical chemistry; vitamins; synthetic organic chemistry; chemotherapy; pharmacology; aromatic and agricultural chemicals.

HOLDINGS: 5,700 books and 740 journal titles, including material in all major European languages.

PUBLICATIONS: Bibliographies.

INFORMATION SERVICES: Exchanges interlibrary loan service with institutions having similar subject interests.

HONEYWELL, INC.

Marine Systems Center Technical Library (California)

0979 Honeywell-Marine Systems Center
1200 East San Bernardino Rd.
West Covina, Calif. 91790
Tel: (213) 331-0011 Ext. 296 or 297

AREAS OF INTEREST: Oceanography; weapon systems; antisubmarine warfare; naval trainers (simulation); sonar; electronics; displays; marine technology.

HOLDINGS: 2,500 books; 300 periodical titles; 5,000 reports.

INFORMATION SERVICES: Answers inquiries concerning holdings; makes referrals; provides limited reference services; makes interlibrary loans; permits onsite use of collection by appointment, subject to security requirements.

HOOKER CHEMICAL CORP. RESEARCH LIBRARY

0980 P.O. Box 344
Niagara Falls, N.Y. 14302

Location:

Long Rd., Grand Island
Niagara Falls, N.Y.
Tel: (716) 773-7511 Ext. 633

AREAS OF INTEREST: Thermoplastics; polyurethane foams; paints and coatings; metal finishing; textile chemistry; rocket propellants; insecticides; fungicides; herbicides; electrochemistry; solvents; inorganic phosphorus compounds; physics; metallurgy; engineering; dyes; pigments; polymers; drugs; soaps; pulp and paper; petroleum; petrochemicals; inorganic, organic, and analytical chemistry.

HOLDINGS: 4,000 books; 6,000 bound journals; 10,600 reports; 6 vertical file drawers of clippings; 6 vertical file drawers of documents; microfilm, microcards, slides, data.

PUBLICATIONS: *Library Guide*; *List of Periodicals* (available to other libraries in the area); accessions list.

INFORMATION SERVICES: Makes interlibrary loans of books and journals; permits onsite use of reference books and journals by scientists by request.

HOUDRY PROCESS AND CHEMICAL CO.

0981 Widener Bldg.
1339 Chestnut St.
Philadelphia, Pa. 19107
Tel: (215) 568-6000

AREAS OF INTEREST: Development and licensing of processes for the refining, petrochemical, synthetic rubber, and steel industries; manufacture of catalysts related to the processes; manufacture of chemicals for the urethane, foam, plasticizer, and lubricant industries.

HOLDINGS: 250 books; 650 technical reports; 700 graphs and tables; 400 photos; 150 slides; 450 project records; 3,800 abstracts and indexes; pamphlets, microforms, display materials, reprints, bibliographies, publication lists, press releases, clippings, motion picture film.

INFORMATION SERVICES: Answers inquiries; provides consulting services; permits limited onsite use of collection; disseminates reprints on request.

HOUSE OF REPRESENTATIVES, U.S.

see Congress of the United States

HOUSING AND URBAN DEVELOPMENT, DEPARTMENT OF

Department of Housing and Urban Development Library

0982 451 Seventh St. SW., Room 8141
Washington, D.C. 20410
Tel: (202) 755-6370

AREAS OF INTEREST: Housing, including technical, economic, and social aspects; urban development and renewal; city and metropolitan planning; model cities; architecture; building technology; law and legislation; local government; mortgage and construction insurance and finance; banking; real estate; urban land use and zoning; population; urban mass transportation; new communities; community facilities.

HOLDINGS: 400,000 pieces, including general and law books; 1,400 periodical titles; reports, abstracts and indexes, motion pictures, a microform collection.

PUBLICATIONS: *Housing and Planning References* (bimonthly index to urban literature); bibliographies on special subjects (6-8 major issues a year).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, reference, literature-searching, and duplication services; provides bibliographies and abstracting in response to specific requests; makes interlibrary loans; permits onsite use of collection. All services are free to any serious user.

Information Center

0983 U.S. Department of Housing and Urban Development
451 Seventh St. SW., Room 1202
Washington, D.C. 20410
Tel: (202) 755-6420

AREAS OF INTEREST: The Department has four major areas of interest: (*1*) *Demonstration Programs and Intergovernmental Relations*. Housing research; urban studies; slum clearance; defense planning and emergency preparedness; natural disaster relief; market analyses and trends affecting housing and capital market mortgage; housing and building codes; zoning and tax standards; open-space and urban beautification. (*2*) *Mortgage Credit and Federal Housing*. Private loan and mortgage insurance for property improvement; home mortgage insurance (especially for veterans' housing and disaster housing); cooperative and condominium mortgage insurance; urban renewal; low-income housing; housing for the elderly; nursing homes; housing for the military; disposition and liquidation of Government property. (*3*) *Metropolitan Development*. Urban planning and evaluation; academic facilities; school construction; public works; public land; public facilities; natural disaster engineering; sanitation; urban transportation. (*4*) *Renewal and Housing Assistance*. Urban renewal and redevelopment; neighborhood renewal and rehabilitation; community renewal and social planning (including relocation and rehousing); code enforcement; demolition projects; open-space land and beautification; historic structures; land marketing; codes and building standards; engineering aspects of clearance, zoning, and land usage; college housing; technical aspects of low-rent housing for the elderly and handicapped; loan contracts; housing maintenance; legal aspects of housing assistance; equal housing opportunities; intergroup relations; land acquisitions and appraisal.

PUBLICATIONS: Booklets, pamphlets, leaflets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides advisory and consulting services. In addition to the Information Center in Washington, D.C., seven regional offices furnish information concerning the Department's programs. The addresses of the regional offices are listed below.

Region I (Connecticut, Maine, Massachusetts, New Hampshire, New York, Rhode Island, Vermont):
346 Broadway
New York, N.Y. 10013

Region II (Delaware, District of Columbia, Maryland, New Jersey, Pennsylvania, Virginia, West Virginia):
1004 Widener Bldg.
Chestnut and Juniper Sts.
Philadelphia, Pa. 19107

Region III (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee):
645 Peachtree-Seventh Bldg.
Atlanta, Ga. 30323

Region IV (Illinois, Indiana, Iowa, Michigan, Minnesota, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin):
360 North Michigan Ave., Room 1500
Chicago, Ill. 60601

Region V (Arkansas, Colorado, Kansas, Louisiana, Missouri, New Mexico, Oklahoma, Texas):
Federal Office Bldg.
819 Taylor St.
Fort Worth, Tex. 76102

Region VI (Arizona, California, Guam, Hawaii, Nevada, Southern Idaho, Utah, Wyoming):
450 Golden Gate Ave.
P.O. Box 36003
San Francisco, Calif. 94102

Region VI, Area Office (Alaska, Montana, Northern Idaho, Oregon, Washington):
909 First Ave.
Seattle, Wash. 98104

Region VII (Puerto Rico):
P.O. Box 3869 GPO
San Juan, Puerto Rico 00936

HOUSTON PUBLIC LIBRARY

Business Technology Room

0984 Houston Public Library
500 McKinney Ave.
Houston, Tex. 77002
Tel: (713) 224-5441

AREAS OF INTEREST: Physical science; mathematics; engineering; geology and earth sciences; general business; construction and home repair; automotive repair; labor; trade and commerce.

HOLDINGS: 39,000 books; 11,500 technical reports; 5,500 maps and charts; 173 periodical titles; 616 annual reports; standards and specifications, abstracts, indexes.

PUBLICATIONS: *Bulletin From the Business Technology Room* (quarterly); subject bibliographies.

INFORMATION SERVICES: Answers inquiries; makes referrals; makes interlibrary loans of periodicals to companies and libraries; provides duplication, consulting, and limited bibliographic services; permits onsite reference.

HUDSON LABORATORIES LIBRARY

see Columbia University

HUDSON PHOTOGRAPHIC INDUSTRIES, INC.

0985 Irvington on Hudson, N.Y. 10533
Tel: (914) 591-8700

AREAS OF INTEREST: Multimedia materials for primary grades; audiovisual equipment; photographic equipment; rear screen projectors; film splicers; microfilm readers; spray-on adhesives.

HOLDINGS: 200 slides; 450 photos; devices, samples, pamphlets, reports, clippings, data.

PUBLICATIONS: Reports, preprints, reprints, pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, reference, and bibliographic services for fee.

HUGHES AIRCRAFT CO.

Ground Systems Group

Technical Library

0986 Ground Systems Group
Hughes Aircraft Co.
P.O. Box 3310
Fullerton, Calif. 92634

Location:
Building 600/MS C222

1901 West Malvern Ave.
Fullerton, Calif.
Tel: (714) 871-3232

AREAS OF INTEREST: Management; electrical and electronic engineering; electronic data processing; physics and related areas.

HOLDINGS: 13,338 books; 300 periodicals; 26,250 reports (12,250 hard copy and 14,000 on microfiche); 150 pamphlets in vertical file; special collection in vertical file of DDC and company-generated bibliographies.

PUBLICATIONS: Directories, accessions lists.

INFORMATION SERVICES: Answers brief inquiries for local libraries; provides reference and literature-searching services; makes interlibrary loans (except for DDC documents); permits onsite reference (except for documents) by engineers, scientific personnel, and librarians; makes referrals.

HUMAN FACTORS SOCIETY (HFS)

0987 P.O. Box 1369
Santa Monica, Calif. 90406
Tel: (213) 394-1811

AREAS OF INTEREST: Human factors; human engineering; engineering psychology; bioengineering; man-machine systems design; research in anthropometrics, audition, vision, human performance behavior, ergonomics, and learning; equipment and systems design covering man-machine interaction in operation and maintenance; related areas of applied science and engineering, including cybernetics, bionics, medical electronics, and programmed and automated instruction.

PUBLICATIONS: *Human Factors* (journal, 6 issues a year); *Human Factors Society Bulletin* (monthly); directory and yearbook (annual).

INFORMATION SERVICES: Answers inquiries.

HUMAN SCIENCES RESEARCH, INC.

0988 Westgate Research Park
7710 Old Springhouse Rd.
McLean, Va. 22101
Tel: (703) 893-5200

AREAS OF INTEREST: Operations research; systems research (decision making, information handling, control and command); behavioral sciences (psychology, social psychology, sociology, anthropology); economics; mathematics; political science.

HOLDINGS: Small technical library.

PUBLICATIONS: Technical reports, bibliographies, brochure.

INFORMATION SERVICES: Makes interlibrary loans.

HYDRONAUTICS, INC.

0989 Pindell School Rd.
Laurel, Md. 20810
Tel: (301) 776-7454

AREAS OF INTEREST: Hydrodynamics; hydrofoils; propellers; propulsion; ground effect; water channels; fluid mechanics; mechanics; waves; missiles; submarines; cavitation and cavitation damage; cathodic protection; corrosion; naval architecture; marine engineering; aerodynamics; desalination; membrane technology; scientific instruments; pollution control.

HOLDINGS: 600 books; 1,600 periodicals; 10,000 reports; 450 abstracts; 1,300 slides; 10 films; various types of hydrodynamic models.

PUBLICATIONS: Reports, monographs.

INFORMATION SERVICES: Answers inquiries; provides consulting and research services for fee; makes interlibrary loans; permits onsite reference by individuals from organizations.

HYDROSPACE SERVICES, INC.

0990 5454 Wisconsin Ave. NW.
Washington, D.C. 20015
Tel: (301) 654-6400

AREAS OF INTEREST: Design, fabrication, installation, and maintenance of cable systems, cable handling gear, oceanographic, antisubmarine warfare, and underwater acoustic equipment, buoys, mooring systems, etc.

HOLDINGS: Ocean bottom temperature and grab samples, maps, charts, reports, standards and specifications, pamphlets, slides, ocean cable route surveys, ocean cable shore landing surveys, press releases.

INFORMATION SERVICES: Answers inquiries; provides consulting services for fee or on contract basis; distributes some technical reports free; makes referrals.

IDAHO AGRICULTURAL EXPERIMENT STATION

see University of Idaho

IDAHO BUREAU OF MINES AND GEOLOGY

see University of Idaho

IDAHO DEPARTMENT OF HEALTH

Community Study Pesticide Project

0991 Idaho Department of Health
Statehouse
Boise, Idaho 83707
Tel: (208) 344-5811 Ext. 387

AREAS OF INTEREST: Effects of pesticides on the total environment, including air, water, soil, wildlife, and food, as well as clinical information on heavily exposed individuals and a group of controls; analytical methods, including chromatography, spectrophotometry, electroencephalography, and the associated clinical examinations.

HOLDINGS: Medical records, laboratory data.

PUBLICATIONS: Quarterly and annual reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; performs laboratory analyses.

IDAHO DEPARTMENT OF HIGHWAYS

0992 P.O. Box 7129
Boise, Idaho 83707

Location:
3211 West State St.
Boise, Idaho
Tel: (208) 344-7471

AREAS OF INTEREST: Highways; geology.

HOLDINGS: Maps, plans, statistical data.

INFORMATION SERVICES: Answers inquiries; permits onsite use of collection.

IDAHO DEPARTMENT OF WATER ADMINISTRATION

0993 Statehouse, Annex II
Boise, Idaho 83701
Tel: (208) 384-2215

AREAS OF INTEREST: State water laws; water distribution; water rights; water sources; water power; ground water; surface waters; irrigation districts; water districts; flood control districts; water works; water reclamation; dams; reservoirs; hydroelectric power; water well construction standards; licensing of water well drillers.

HOLDINGS: The Department serves as a depository for cancelled water permits and licensed permits dating back 50 years, permanent records of water rights, and water project records on dam, reservoir, and headgate construction. Other holdings include Carey Act records on arid land reclamation in Idaho, watermasters' annual reports from 84 districts, well log records, biennial reports, ground water critical-area reports, project feasibility reports, well log reports, reports on water resources in Idaho, flood control reports, patent records, standards and specifications, 5,000 maps and charts on water distribution and water projects, and general correspondence. The map and chart collection is cataloged and indexed by streams, springs, and lakes.

PUBLICATIONS: Biennial report, water resource reports, water information bulletin, State statutes on water, maps, charts.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and duplication services; assists in the filing of water rights applications; permits onsite use of collection; investigates the use of water and the extent of water rights in an area; makes water resource investigations.

IDAHO MINE INSPECTOR'S OFFICE

0994 Statehouse, Room 117
Boise, Idaho 83707
Tel: (208) 384-3400 or 384-3406

AREAS OF INTEREST: Mine safety and inspection (Idaho); engineering.

HOLDINGS: 5,100 books; 1,040 journals and magazines; 1,400 mineral specimens; 6,200 maps and charts; 7,000 reports; bibliographies, data.

PUBLICATIONS: Bibliographies.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and literature-searching services; permits onsite reference.

IDAHO STATE UNIVERSITY LIBRARY

0995 Pocatello, Idaho 83201
Tel: (208) 236-3380

AREAS OF INTEREST: All subjects, including the pure and applied sciences; medical sciences; mathematics; physics; chemistry; geology; paleontology; biology; botany; zoology; pharmacy; nursing; speech pathology and audiology; dentistry; dental hygiene; anthropology; engineering; nuclear science and technology.

HOLDINGS: 130,000 books; 4,000 journal titles; 430,000 documents, including U.S. Atomic Energy Commission depository items; 200,000 microforms; maps, including U.S. Geological Survey and Army Map Service depository items, specializing in States west of the Mississippi River.

PUBLICATIONS: Book lists (irregular); list of holdings of science and technology serials (irregular).

INFORMATION SERVICES: Permits onsite reference; lends materials on payment of small, yearly fee; provides reference services for U.S. Atomic Energy Commission publications; provides duplication services for fee; makes interlibrary loans.

IDRES INFORMATION CENTER

0996 Science Information Services
Franklin Institute Research Laboratories
Benjamin Franklin Parkway at 20th St.
Philadelphia, Pa. 19103
Tel: (215) 448-1485

The IDRES (Institute for the Development of Riverine and Estuarine Systems) Information Center is sponsored by the Pennsylvania Science and Engineering Foundation and the National Science Foundation.

AREAS OF INTEREST: All aspects of riverine-estuarine research, development, conservation, and utilization, with special emphasis on the Delaware River Basin, including, but not limited to, technical and economic development, management, pollution control, recreational use, thermal pollution, sedimentation, natural resources law as it affects riverine-estuarine utilization, mathematical modelling, waste disposal, and estuarine ecology.

HOLDINGS: Small working collection of books, periodicals, and reports.

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Answers inquiries; provides reference and literature-searching services; makes referrals. Services other than replies to brief reference questions are provided on fee basis.

IIT RESEARCH INSTITUTE

0997 10 West 35th St.
Chicago Ill. 60616
Tel: (312) 225-9630

AREAS OF INTEREST: Organic and inorganic chemistry; chemical engineering; electrical engineering and electronics; ceramics; minerals and geology; physics and geophysics; mechanical engineering; heat and power; fluid dynamics and systems; metals; small arms; propulsion; mechanics of materials; space sciences; computer sciences; life sciences; international technology, industry, and agriculture; technoeconomics; medical engineering; law enforcement science and technology; environmental waste utilization; building technology; olfactronics and odor sciences.

HOLDINGS: A reference library. The Institute also has access to the collections of the John Crerar Library.

PUBLICATIONS: *Frontier* (biannual); reports, brochures.

INFORMATION SERVICES: Provides reference, consulting, and translating services to Government and industry on a contract basis; permits onsite use of collection.

Binary Metal and Metalloid Constitution Data Center

0998 IIT Research Institute
10 West 35th St.
Chicago, Ill. 60616
Tel: (312) 225-9630

AREAS OF INTEREST: Primarily binary combinations of metallic elements, excluding binaries with halogens and those which are not metal-related (e.g. C-H, C-O, H-O). Properties covered are solidus, liquidus, solubility, crystal structure, and lattice parameters; parameters covered are temperature and composition.

PUBLICATIONS: Reviews of published constitution data (irregular).

INFORMATION SERVICES: Answers inquiries; provides reference lists; provides bibliographies (and reviews, if completed) on specific systems. Services are available to U.S. Government agencies and their contractors, research and educational institutions, and industry.

Electromagnetic Compatibility Analysis Center

0999 IIT Research Institute
North Severn
ECAC Bldg. 120
Annapolis, Md. 21402

Tel: (301) 268-7711 Ext. 8551, 8552, 8553, or 8428

AREAS OF INTEREST: Electronic and electrical engineering; telemetry; electronic systems and subsystems; mathematics and statistics; operations research; antimissile defense; communications; direction finding; electromagnetic compatibility; electronic countermeasures; navigation and guidance; radar detection; electromagnetic wave propagation; space communications; frequency engineering.

HOLDINGS: 45,000 maps; 6,500 military technical manuals; 19,000 technical reports; 100 periodical titles; 2,000 books; 400 frequency listings; 350 spectrum signatures; 1,000 commercial technical manuals.

PUBLICATIONS: Biweekly bulletin of new additions; abstracts, reports, indexes, directories, bibliographies.

INFORMATION SERVICES: Makes interlibrary loans of books and periodicals. Other information services are available to qualified Department of Defense personnel only.

Facilities include a UNIVAC 1108 computer, VICA.

Law Enforcement Science and Technology Center

1000 IIT Research Institute
2024 West St.
Annapolis, Md. 21401
Tel: (301) 268-7501 or 932-8020

AREAS OF INTEREST: Police communications systems; communications equipment development; information systems; olfactronics; scientific analysis techniques; law enforcement systems; security systems; public safety systems.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Provides consulting services for fee; performs research and development work on contract basis.

Reliability Analysis Center

1001 RADC (EMNRR)
Griffiss Air Force Base, N.Y. 13440
Tel: (315) 330-4726

IIT Research Institute
10 West 35th St.
Chicago, Ill. 60616
Tel: (312) 225-9630

Under sponsorship of the Air Force, this Center serves as the central Department of Defense activity for the collection, storage, reduction, organization, review, assessment, analysis, and dissemination of information and experience data bearing on the reliability of microelectronic devices.

AREAS OF INTEREST: Reliability of microelectronic devices and the influence and contribution of part design, material, manufacturing techniques, processing, configuration, testing practices, screening practices, and electrical and environmental stresses on the nature of failures encountered during fabrication, testing, and operation. The Center is concerned with microelectronic circuit devices which are expected to be used in future design of military equipment and which are of most immediate significance to the electronic Government-industry complex, including monolithic integrated circuits, metal oxide semiconductor integrated circuits, hybrid circuits, thin film circuits, and integrated arrays.

HOLDINGS: Data files that are continually updated through information collected from device and equipment manufacturers, system contractors, and field operations.

PUBLICATIONS: Technical monographs and periodically updated data compilations. The following periodic publications are issued and updated at prescribed intervals and distributed to a list of regular users: *Failure Data Tabulation* (a tabular listing of each reported microelectronic device failure for which the mode and/or mechanism of failure has been isolated); *Failure Rate Tabulation* (a file of generic part level failure rates, arranged according to significant device properties and test or application stress conditions); and *Source Document Bibliography* (an itemized list of each active source document on file). Specific technical problem areas are treated in technical monographs, which are published as problems of widespread concern arise. These are authoritative introductions to the state of the art and provide professional guidance in selected topic areas. Emphasis is placed upon those aspects of device design, fabrication, quality assurance, and application that influence reliability. These monographs include a bibliography, a survey of current knowledge and practices, and an analysis of relevant data. They usually contain guidance, based upon engineering practice, in the selection, design, analysis, and application of microelectronic and semiconductor devices.

INFORMATION SERVICES: Answers direct user inquiries. This service is intended to provide valid technical information and engineering data on explicit problems of immediate concern. Specialists in reliability and device technology are available to work directly with the user to define his problem, perform the required file search and information analysis, and prepare appropriate answers. Typically, responses will take one or more of the following forms: analysis of specific numerical data; technical discussion of narrow problem areas; defined topic bibliographies and abstracts; and reference to other data sources. Services are available to U.S. Government agencies, their contractors, suppliers, and others in a position to assist the defense effort.

Water Research Center

1002 IIT Research Institute
10 West 35th St.
Chicago, Ill. 60616
Tel: (312) 225-9630 Ext. 5118

AREAS OF INTEREST: Economic, management, and engineering aspects of water; chemistry, physics, and biology of water and their application to such water problems as saline water conversion, sewage treatment, pollution, and ecology of natural water sources; mathematical models for water treatment processes; travel of pollutants in lakes and streams.

HOLDINGS: Small reference collection. The Center also has access to the collections of the John Crerar Library.

PUBLICATIONS: Reports for the Federal Government.

INFORMATION SERVICES: Answers inquiries; provides consulting services for fee.

ILLINOIS AGRICULTURAL EXPERIMENT STATION

see University of Illinois

ILLINOIS DEPARTMENT OF BUSINESS AND ECONOMIC DEVELOPMENT

Division of Technical and Business Services

1003 Illinois Department of Business and
Economic Development
222 South College St.
Springfield, Ill. 62706
Tel: (217) 525-4683

AREAS OF INTEREST: Science and technology related to business, commerce, and industry; technological opportunities significant to Illinois enterprise.

PUBLICATIONS: *The Potentials of Public Technology: The Challenge in Illinois*; *A Planning Project: Introduction of Numerical Control Technology in Illinois Industry, Phase I and II.*

INFORMATION SERVICES: Provides information to State legislative commissions, State agencies, and advisory groups; coordinates technology-transfer activities to Illinois industry, including computer-based management in the construction industry, potential use of numerically controlled machining equipment by small tool and die shops, computer use in small and medium-sized industry, and technical problems of wood used in industrial raw material.

ILLINOIS DEPARTMENT OF MINES AND MINERALS

1004 112 State Office Bldg.
Springfield, Ill. 62706
Tel: (217) 525-6791

AREAS OF INTEREST: Coal; mine safety (Illinois); oil and gas; metal mining; explosives.

HOLDINGS: 15 books; 25 pamphlets; 1,450 maps and charts.

PUBLICATIONS: *Annual Coal Report*; *Illinois Coal Mining Act*; *Metal Mine Regulations*; *Explosive Regulations*; *An Act in Relation to Oil, Gas, Coal and Other Surface and Underground Resources*; *Monthly Production and Casualty Reports*; *Annual Oil Report*.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite use of collection.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH

Division of Sanitary Engineering

1005 Illinois Department of Public Health
535 West Jefferson St.
Springfield, Ill. 62706
Tel: (217) 525-6555

AREAS OF INTEREST: Radiological health; swimming pool sanitation; general sanitation.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services.

ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BUILDINGS

Division of Waterways

1006 Illinois Department of Public Works and Buildings
201 West Monroe St.
Springfield, Ill. 62706
Tel: (217) 525-6146 or 525-6147

AREAS OF INTEREST: Water resources of the State; recreational lakes and structures; channel improvements; regulations governing engineering works affecting public waters.

HOLDINGS: Books, journals, reports, topographic and geologic maps, precipitation and streamflow records.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference.

ILLINOIS GEOLOGICAL SURVEY

1007 Natural Resources Bldg.
Urbana, Ill. 61801
Tel: (217) 344-1481

AREAS OF INTEREST: Geology, including glacial, sedimentary, ground-water, engineering, areal, environmental geology, and stratigraphy, paleobotany, paleontology, sedimentary petrology, mineral resources, and mining; chemistry, including geochemistry, analytical, physical, organic, coal, and fluorine chemistry, and chemical engineering; oil and gas production and reservoir engineering; geological occurrence, production, processing, utilization, resource status, and economic aspects of minerals, including coal, oil and gas, limestone, dolomite, cement raw materials, silica sand and sandstone, sand and gravel, clay, and fluorspar.

HOLDINGS: 56,000 books; 180,000 well logs; 56,000 cuttings; well cores; mine maps, oil and gas maps, topographic maps, geological maps, mined-out area maps, economic studies and reports.

PUBLICATIONS: Series of circulars, reports of investigations, industrial minerals notes, mineral economics briefs, bulletins, Illinois petroleum reports, environmental geology notes, drilling reports, educational series, guidebook series, and maps covering geology, mineral resources, mineral industries, oil and gas, and coal reserves.

INFORMATION SERVICES: Answers inquiries; provides reference services. The Survey's educational extension service provides lectures, exhibits, and materials for school use, and geologic field trips for teachers.

ILLINOIS STATE WATER SURVEY

1008 P.O. Box 232
Urbana, Ill. 61802

Location:

605 East Springfield
Champaign, Ill.
Tel: (217) 333-2210

AREAS OF INTEREST: Ground-water and surface-water hydrology; surface-water flow, runoff, evaporation, and sedimentation; water level measurement; pumpage rates and growth; characteristics, development, specific capacities, rehabilitation, and abandonment of aquifers; ground-water recharge; water quality; inorganic constituents of water and sewage; sewage and industrial waste treatment; thermal contamination; biological environment of lakes and streams; corrosion; methods of water treatment in public and industrial use; reservoirs and distribution systems of public water supply; hydraulic structures; cloud physics; radar; rainout of radioactivity in Illinois; hydrometeorology in Illinois; techniques for design and evaluation of weather modification experiments; urban effects on weather.

HOLDINGS: 16,000 books and monographs; 150 periodicals; abstract literature, reports, standards and specifications, maps, charts, reviews, newsletters, reprints, bibliographies, pamphlets, publication lists.

PUBLICATIONS: *Bulletins*, covering original investigations and containing comprehensive basic data on the State's water resources; *Reports of Investigation*, consisting usually of preliminary studies and areal investigations; *Circulars*, containing informal reports on current studies; miscellaneous reports and reprints. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite use of collection; performs free chemical analyses of well samples from Illinois wells.

Facilities include rain-gage networks, a meteorological laboratory at the University Airport, and a research laboratory in Peoria. The Survey also helps sponsor 144 stream-gaging stations.

ILLUMINATING ENGINEERING RESEARCH INSTITUTE

1009 345 East 47th St.
New York, N.Y. 10017
Tel: (212) 752-6800

AREAS OF INTEREST: The science of light and its relationship to vision.

HOLDINGS: Reports, data.

PUBLICATIONS: *Proceedings* of symposia; newsletter (3 or 4 issues a year); progress reports; papers published in *Illuminating Engineering* (journal of the Illuminating Engineering Society); annual report.

INFORMATION SERVICES: Answers inquiries; conducts symposia.

ILLUMINATING ENGINEERING SOCIETY

1010 345 East 47th St.
New York, N.Y. 10017
Tel: (212) 752-6800

AREAS OF INTEREST: Science and art of illumination; illumination standards; illuminating engineering; somatic and psychological effects of light on the human organism; color.

HOLDINGS: Library collection on illumination; clippings of published materials on lighting.

PUBLICATIONS: *Illuminating Engineering* (monthly); *IES Lighting Handbook*; *ANSI Standards* and *Recommended Lighting Practices* (series of booklets describing lighting systems appropriate for particular areas); *IES Committee Reports*; *IES Lighting Data Sheets* (series describing actual lighting installations, complete with photographs, drawings, and engineering data).

INFORMATION SERVICES: Answers inquiries. Material in the Society's master file of published data is available for reference or loan.

INCINERATOR INSTITUTE OF AMERICA

1011 60 East 42d St.
New York, N.Y. 10017
Tel: (212) 687-0994

AREAS OF INTEREST: Incineration of wastes, including equipment, technology, and fire hazards.

HOLDINGS: Reports, standards and specifications, periodicals, newsletters, clippings, press releases.

PUBLICATIONS: *Incinerator Standards*; books.

INFORMATION SERVICES: Answers inquiries; makes referrals.

THE INDEPENDENT BATTERY MANUFACTURERS ASSOCIATION

1012 100 Larchwood Dr.
Largo, Fla. 33540
Tel: (813) 584-5540

AREAS OF INTEREST: Batteries; starting, lighting, ignition, and generating systems.

HOLDINGS: Books, reports, periodicals, pamphlets, publication lists, standards and specifications, press releases, data.

PUBLICATIONS: *The Battery Man* (monthly).

INFORMATION SERVICES: Answers brief inquiries; makes referrals.

INDEPENDENT ELECTRONIC MUSIC CENTER, INC.

1013 41 East Main St.
Trumansburg, N.Y. 14886
Tel: (607) 387-6101

AREAS OF INTEREST: Electronic music, including technology, equipment, and studios.

HOLDINGS: Disc recordings, tape recordings, books, periodicals, reports; printed programs and reviews of electronic music concert and radio performances.

PUBLICATIONS: *Electronic Music Review* (quarterly); *International Electronic Music Catalog*; directory (distributed by M.I.T. Press).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and duplication services; provides private instruction in the principles and use of contemporary electronic media; permits onsite reference by arrangement. Services are available to members only (membership is open to anyone interested in electronic music).

INDEPENDENT NATURAL GAS ASSOCIATION OF AMERICA

1014 1660 L St. NW.
Washington, D.C. 20036

Tel: (202) 293-5770

AREAS OF INTEREST: Natural gas industry; regulation of natural gas pipelines; energy supply.

PUBLICATIONS: *Comparison of Season Househeating Costs for Gas, Fuel Oil, Coal, and Electricity* (annual); *I.N.G.A.A. Bulletin* (weekly).

INFORMATION SERVICES: Answers inquiries as time permits; makes referrals.

INDIANA BUREAU OF MINES AND MINING

1015 542 Margaret Ave.
Terre Haute, Ind. 47801
Tel: (812) 232-6406

AREAS OF INTEREST: Indiana mine laws relating to all deep shaft and slope mines, including gypsum mines; coal mine safety; mine rescue and mine rescue equipment for disasters and mine fires; first aid; analysis of coal dust and air samples.

HOLDINGS: Mine maps of abandoned and active coal mines in Indiana; coal mine data; mine rescue equipment, including foam fire fighting equipment, breathing apparatus, methane testers, anemometers, and chargers.

PUBLICATIONS: Annual report on coal mining data (free on request).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; prepares analyses and evaluations; provides photostat copies of maps for nominal fee; permits onsite reference to maps.

INDIANA DEPARTMENT OF NATURAL RESOURCES

Division of Oil and Gas

1016 Indiana Department of Natural Resources
606 State Office Bldg.
100 North Senate Ave.
Indianapolis, Ind. 46204
Tel: (317) 633-6853

AREAS OF INTEREST: Petroleum; geology; conservation; drilling; secondary recovery; gas storage.

HOLDINGS: 35,000 well records; maps, charts, standards and specifications, journals, data.

PUBLICATIONS: *Oil and Gas Drilling Report* (monthly); *Drilling Permit List* (weekly); annual report, standards and specifications.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite use of collection.

Division of Public Information and Education

1017 Indiana Department of Natural Resources
612 State Office Bldg.
100 North Senate Ave.
Indianapolis, Ind. 46204
Tel: (317) 633-4294

AREAS OF INTEREST: Activities, projects, and programs of the Indiana Department of Natural Resources; mineral, land, and water resources utilization; recreation activities; geology; entomology.

PUBLICATIONS: *Outdoor Indiana* (10 issues a year).

INFORMATION SERVICES: Answers inquiries.

Division of Water

1018 Indiana Department of Natural Resources
606 State Office Bldg.
100 North Senate Ave.
Indianapolis, Ind. 46204
Tel: (317) 633-5267

AREAS OF INTEREST: Flood control; water supply; water quality control; irrigation; drainage; watershed protection; reservoirs; stream pollution; ground-water and surface-water hydrology; water level measurement; characteristics of aquifers.

HOLDINGS: 400 books; 200 journals; 500 reports; 200 maps and charts; 25,000 items of unevaluated data; 150 data compilations; 7,000 photographs; 3,000 slides.

PUBLICATIONS: Several series of reports are available free. These include: *Technical Memoranda Reports, Preliminary Examination Reports, Status of Investigation Reports, Special and Summary Reports, Reports of Investigations, Annual Progress Reports, Bulletins* on ground-water supplies of various Indiana counties, and *Circulars*. A list of titles is furnished on request.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference.

INDIANA DEPARTMENT OF PUBLIC WORKS

1019 Indianapolis, Ind. 46209
Tel: (317) 633-5832

AREAS OF INTEREST: State construction and remodeling.

HOLDINGS: Books, maps, charts, project records, reports, specifications, reviews, pamphlets, blueprints.

PUBLICATIONS: Progress reports for construction projects.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite use of collection.

INDIANA GEOLOGICAL SURVEY

1020 611 North Walnut Grove
Bloomington, Ind. 47401
Tel: (812) 337-2862

AREAS OF INTEREST: Geology; geophysics; geochemistry; fossils; industrial minerals; petroleum; coal.

HOLDINGS: 5,000 fossil specimens; 20,000 maps and charts; 50,000 books and monographs; 5,000 reports; 5,000 still photos; 5,000 slides; cores, seismic records, data compilations.

PUBLICATIONS: Maps, reports, bibliography, directory.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and consulting services; permits onsite reference; identifies rocks, minerals, and fossils, but does not run analyses.

INDIANA HIGHWAY COMMISSION

Division of Planning

1021 Indiana Highway Commission
State Office Bldg., Room 1205
Indianapolis, Ind. 46209
Tel: (317) 673-5207

AREAS OF INTEREST: Vehicle traffic, construction, and expenditures on roads and streets in the State.

HOLDINGS: Traffic counts, maps, reports, records of highway expenditures since the mid-1930's.

PUBLICATIONS: Surveys.

INFORMATION SERVICES: Answers inquiries as time permits; provides duplication services; permits onsite reference.

INDIANA LIMESTONE INSTITUTE OF AMERICA, INC.

1022 P.O. Box 489
Bloomington, Ind. 47401

Location:

400 East 7th St.
Bloomington, Ind.
Tel: (812) 339-3439

AREAS OF INTEREST: Production and uses of Indiana limestone; quarrying, mill fabrication, finishing, carving, and use of limestone as building stone; architectural and engineering applications of Indiana limestone, with emphasis on the technology of high-strength adhesives, post-tensioning, and stressing.

HOLDINGS: Books, motion pictures, photos, slides, pamphlets, specifications, standards, related technical information, samples.

PUBLICATIONS: *Indiana Limestone Handbook*; *Indiana Limestone Tolerances*; *New Developments in Indiana Limestone*.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; establishes and maintains standards of grading, finishes, and fabrication of limestone; permits onsite reference; lends films.

INDIANA SOIL AND WATER CONSERVATION COMMITTEE

1023 Agricultural Administration Bldg., Room 5
Purdue University
Lafayette, Ind. 47907
Tel: (317) 749-2856

AREAS OF INTEREST: Soil and water conservation, watershed management, and organization of soil and water conservation districts in Indiana.

HOLDINGS: Books, journals, photos, slides.

PUBLICATIONS: *Topsoil* (bimonthly); *Handbook for Supervisors* of conservation districts and *Handbook for SWCD Office Secretaries* (both revised annually).

INFORMATION SERVICES: Provides consulting services free; makes referrals; permits onsite reference.

INDIANA STREAM POLLUTION CONTROL BOARD

1024 Board of Health Bldg.
1330 West Michigan St.
Indianapolis, Ind. 46206
Tel: (317) 633-4420

AREAS OF INTEREST: Water quality, water pollution control, and industrial waste treatment in Indiana.

HOLDINGS: Water pollution laws and regulations, Board hearings.

PUBLICATIONS: Biennial list of sewage treatment plants and industrial waste treatment and disposal facilities, statistical stream surveys, Indiana water quality reports, annual report.

INFORMATION SERVICES: Answers inquiries; permits onsite reference.

Facilities include 76 monitoring stations on streams and lakes.

INDIANA UNIVERSITY

Aerospace Research Applications Center

1025 Indiana University Foundation
Bloomington, Ind. 47405
Tel: (812) 337-7970

AREAS OF INTEREST: Industrial applications of Government-developed science and technology.

HOLDINGS: 600,000 microfiche containing unclassified documents from Atomic Energy Commission, Department of Commerce, and the National Aeronautics and Space Administration; 65,000 NASA documents; 300,000 taped literature citations; 250,000 abstracts on cards.

PUBLICATIONS: *Industrial Applications Reports* (weekly); *Computer Information Service* (monthly); *Marketing Information Service* (monthly); *Standard Interest Profiles* (monthly or semimonthly).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides literature-searching services; permits onsite reference to Atomic Energy Commission documents.

Astronomy-Physics-Mathematics Library

1026 Swain Hall
Indiana University
Bloomington, Ind. 47401
Tel: (812) 337-3309

AREAS OF INTEREST: Astronomy; mathematics; physics; astrophysics; mechanics; cosmic rays; field theory; high-energy particles; nuclear physics; solid state physics; computers.

HOLDINGS: 44,000 volumes of books and bound journals; 560 journal titles; reports, data.

PUBLICATIONS: Accessions list; Physics Preprint Accessions List.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite reference.

Chemistry Library

1027 Indiana University
Bloomington, Ind. 47401
Tel: (812) 337-9452

AREAS OF INTEREST: Analytical, organic, inorganic, pharmaceutical, physical, and quantum chemistry; chemical instrumentation; crystallography; biochemistry; radiochemistry; electrochemistry; histochemistry; microchemistry; spectrochemistry; stereochemistry; thermochemistry; history of chemistry.

HOLDINGS: Approximately 30,000 volumes and 500 current serial subscriptions. Literature in all major languages is represented.

PUBLICATIONS: Accessions list.

INFORMATION SERVICES: Provides reference services; provides current awareness service through a Table of Contents service; provides an SDI service to chemistry faculty and graduate students through the utilization of the Chemical Abstracts Service Condensate Tapes; makes interlibrary loans; permits onsite reference. Duplication facilities are available for a fee.

Geology Library

1028 Indiana University
1005 East 10th St.
Bloomington, Ind. 47401
Tel: (812) 337-7170

AREAS OF INTEREST: Geology, including economic geology, geochemistry, geomorphology, geophysics, glacial geology, paleontology, mineralogy, petroleum geology, petrology, sedimentology, stratigraphy, structural geology, hydrogeology, meteorology, and oceanography.

HOLDINGS: 47,000 books, serial volumes, and pamphlets; 40 reels of microfilm; 30 sets of microfiche; 532 microcards; 74,000 sheet maps; 22 current bibliographic services and indexes. Publications are acquired in all major languages and from many of the newer nations of the world.

PUBLICATIONS: *Acquisitions List* (monthly, for inhouse distribution).

INFORMATION SERVICES: Provides reference services to Indiana University students and faculty and Indiana Geological Survey staff; permits onsite reference. Interlibrary loans are processed through Indiana University Library's interlibrary loan office.

Facilities include microfiche, microcard, and microfilm readers. Photocopying is available elsewhere in the building.

Optometry Branch Library

1029 Indiana University
Bloomington, Ind. 47401
Tel: (812) 337-8629

AREAS OF INTEREST: Optometry, vision, anatomy, and physiology of the eye; physiological optics; physics as it relates to optics, optical instruments, lasers, photometry, color, and colorimetry; engineering as it relates to vision and safety, illumination design, and plastics.

HOLDINGS: 5,000 volumes; 98 current journals; 500 reports.

INFORMATION SERVICES: Provides reference and duplication services; makes interlibrary loans; permits onsite reference.

Quantum Chemistry Program Exchange (QCPE)

1030 Chemistry Department
Indiana University
Bloomington, Ind. 47405
Tel: (812) 337-6605

AREAS OF INTEREST: Computing; chemistry computer program; quantum chemistry computer programs.

HOLDINGS: 100 computer programs on 250,000 punched cards; 190 reports; 190 standards and specifications.

PUBLICATIONS: *Quantum Chemistry Program Exchange Catalog* (annual); newsletter.

INFORMATION SERVICES: Provides duplication services; permits onsite reference.

Water Resources Research Center

1031 Indiana University
1005 East 10th St.
Bloomington, Ind. 47405
Tel: (812) 337-3848

AREAS OF INTEREST: Water resources, including hydrogeology, hydrology, geomorphology, economics of water supply, water management, water law, recreational problems of water use, aquatic biology, and aquatic bacteriology.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services on contract basis.

INDIANA UNIVERSITY OF PENNSYLVANIA LIBRARY

1032 Indiana, Pa. 15701
Tel: (412) 463-9111

AREAS OF INTEREST: Physical and biological sciences.

HOLDINGS: 45,000 books; 2,200 periodical titles; 95,000 reports; special collection on Pennsylvania history education. The Library is a depository for U.S. Government publications.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, reference, and duplication services; makes direct and interlibrary loans; permits onsite use of collection. Some services are provided on fee basis. The Library serves as a District Library Center for Armstrong and Indiana Counties.

INDIANAPOLIS-MARION COUNTY PUBLIC LIBRARY

Science and Technology Division

1033 Indianapolis-Marion County Public Library
40 East Saint Clair St.
Indianapolis, Ind. 46204
Tel: (317) 638-4552

AREAS OF INTEREST: Science and technology.

HOLDINGS: 55,000 books; 300 periodical titles; 120,000 pamphlets, leaflets, and brochures; 100 technical reports; 7,000 photos; 15,000 clippings; 60 bibliographies; 70 abstracts and indexes; standards and specifications, reprints, publication lists, posters and other display materials.

INFORMATION SERVICES: Answers inquiries; provides reference, bibliographic, and literature-searching services; makes direct and interlibrary loans; permits onsite reference.

INDUSTRIAL DESIGNERS SOCIETY OF AMERICA

1034 60 West 55th St.
New York, N.Y. 10019
Tel: (212) 246-5050

AREAS OF INTEREST: Industrial design, particularly of product design and product systems, industrial and consumer packaging, exhibition design, graphics, interiors, and space planning.

HOLDINGS: 100 books; 50 periodical titles; photos, slides.

PUBLICATIONS: *Journal of the Industrial Designers Society of America* and *IDSA Newsletter* (both 4 times a year); bibliographies, directories, educational bulletins, books, reports.

INFORMATION SERVICES: Answers inquiries; provides advisory, reference, and literature-searching services; lends slides to educational institutions; permits onsite reference to historical material by bona fide researchers. Services are primarily for members, but are also available to others seeking information on the profession of industrial designing or jobs in the profession.

INDUSTRIAL ENGINEERING INSTITUTE, INC.

1035 500 West Brown Deer Rd.
Milwaukee, Wis. 53217
Tel: (414) 352-3730

AREAS OF INTEREST: Research and development engineering, pollution surveys and systems, effluent treatment, and gas and fluid waste, including special automation machines, water processing equipment, welding machinery, human factor design, and stress analysis; industrial engineering, including method and process development, plant layout, tooling design, methods and time standard studies and establishment, and manning table studies; management engineering, including systems analysis and development, management and executive analysis, plant site surveys, engineering market surveys, office procedures analysis, communication analysis, and safety factor analysis; metallurgical engineering, including failure analysis, forging technique development, and brazing and welding process development.

HOLDINGS: 1,350 books; 7,500 reports; 900 project records; 100 standards and specifications; 1,250 abstracts and indexes; 325 preprints and reprints; data.

INFORMATION SERVICES: Answers inquiries; provides consulting services on fee basis; permits controlled onsite use of literature collection.

INDUSTRIAL FASTENERS INSTITUTE

1036 1505 East Ohio Bldg.
1717 East 9th St.
Cleveland, Ohio 44114
Tel: (216) 241-1482

AREAS OF INTEREST: Fastener standardization, including nuts, bolts, rivets, screws, and specially formed parts; fastener technology, including fatigue, stress corrosion, stress, and other technology for mechanically fastened joints; fastener research, including basic studies concerning corrosion, high stength bolting, and other technology basic to the fasteners industry; technical information relating to mechanical fasteners and their assembly function.

HOLDINGS: Complete library of fastener technical information and existing fastener standards.

PUBLICATIONS: *Fasteners* (quarterly magazine); *Fastener Standards* (book); technical standards and papers; other technical data relating to fastener application engineering.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services; disseminates information relating to fastener application engineering.

INDUSTRIAL MANAGEMENT SOCIETY

1037 330 South Wells St.
Chicago, Ill. 60606
Tel: (312) 939-4957

AREAS OF INTEREST: Industrial engineering; industrial management.

HOLDINGS: 1,000 books; 50 periodicals; films.

PUBLICATIONS: *Film Rental Library Catalog* (100 films available for purchase or rental); books, periodicals, abstracts.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides duplication services; permits onsite use of collection. Services are provided free to members and at cost to others.

INDUSTRIAL NUCLEONICS CORP.

1038 650 Ackerman Rd.
Columbus, Ohio 43202
Tel: (614) 267-6351

AREAS OF INTEREST: Nucleonics and nucleonic systems; electronics and electronic process control systems; military and space applications of nucleonic and electronic systems; systems for measurement and control of sheet thickness, moisture content of paper, density of process streams, level in bins or tanks, and fill level of containers.

HOLDINGS: 2,000 books; 400 reprints; 2,500 slides; 5,400 reports; 600 pamphlets; 900 clippings.

INFORMATION SERVICES: Answers inquiries; permits onsite use of collection.

INDUSTRIAL RESEARCH INSTITUTE, INC.

1039 100 Park Ave.
New York, N.Y. 10017
Tel: (212) 683-7626

AREAS OF INTEREST: Industrial research.

HOLDINGS: Books, journals.

PUBLICATIONS: *Research Management* (bimonthly).

INFORMATION SERVICES: Answers inquiries; provides reference services to member companies.

INDUSTRIAL SAFETY EQUIPMENT ASSOCIATION, INC.

1040 60 East 42d St., Suite 1914
New York, N.Y. 10017
Tel: (212) 687-0994

AREAS OF INTEREST: Safety equipment and wearing apparel for protection from industrial hazards; personal protective equipment for head, eyes, respiratory system, body, and skin.

INFORMATION SERVICES: Answers inquiries regarding standards, product performance, or other broad industry matters.

THE INDUSTRIAL TRUCK ASSOCIATION

1041 1326 Freeport Rd.
Pittsburgh, Pa. 15238
Tel: (412) 782-1624

AREAS OF INTEREST: Development of recommended practices, particularly in areas affecting safety, to aid manufacturers and users of powered industrial lift trucks and directly related major components; material handling; electrical and/or internal combustion engines (gasoline, liquefied petroleum gas, diesel) for transporting material on skids, pallets, or unit load handling devices or attachments.

PUBLICATIONS: Recommended Practices.

INFORMATION SERVICES: Answers brief inquiries; develops recommended engineering practices and makes available those that are unrestricted.

INFILCO PRODUCTS/FULLER CO.

1042 P.O. Box 50303
Tucson, Ariz. 85703

Location:

901 South Campbell Ave.
Tucson, Ariz.
Tel: (602) 623-5401

AREAS OF INTEREST: Sanitary engineering processes and equipment; manufacture of water, waste water, and water reuse systems.

HOLDINGS: A technical library with extensive magazine files; films on water and waste treatment; slides.

PUBLICATIONS: Reprints of technical articles.

INFORMATION SERVICES: Answers inquiries; lends visual aids on request.

INFORMATION CENTER FOR INTERNAL EXPOSURE

see Oak Ridge National Laboratory

INFORMATION CENTER FOR INTERNATIONAL PHYSICS ACTIVITIES

see American Institute of Physics

INFORMATION RESEARCH CENTER

see Battelle Memorial Institute

INFORMATION SERVICE IN SILICATE SCIENCE

1043 c/o The University of Toledo
Toledo, Ohio 43606
Tel: (419) 531-5711 Ext. 2147

AREAS OF INTEREST: Physical chemistry of silicates, including mineralogy, petrology (genetics) of silicate rocks, and silicate geochemistry; application of silicates in chemical technology, specifically ceramics, manufacture of glass, and hydraulic binders, and their uses in various engineering fields such as highway construction and concrete for large dams.

HOLDINGS: 5,000 books and brochures; 25,000 reprints; 150 periodicals; abstract journals, technical correspondence, data, patents; special collections of card files. Most of the collections include publications in foreign languages.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, literature-searching, abstracting, and indexing services; permits onsite use of collection by prior arrangement. Interlibrary loan and duplication services, available in cooperation with the University of Toledo Library, are provided on a fee basis.

INFRARED INFORMATION AND ANALYSIS CENTER

see University of Michigan

INLAND EMPIRE WATERWAYS ASSOCIATION

1044 P.O. Box 1098
Walla Walla, Wash. 99362

Location:
312 Jones Bldg.
Walla Walla, Wash.
Tel: (509) 525-5620

AREAS OF INTEREST: All aspects of water resources of the Pacific Northwest, including hydroelectric power and nuclear electric generation, navigation, irrigation, pollution control and abatement, recreation, fish and waterfowl, and environmental enhancement.

HOLDINGS: Current literature. A reference library is maintained at the Washington State Water Research Center, Washington State University.

PUBLICATIONS: *The Log* (quarterly); newsletter (monthly); annual report, directories, press releases.

INFORMATION SERVICES: Answers inquiries; provides consulting services; provides speakers for meetings.

INMONT CORP.

Central Research Library

1045 Inmont Corp.
1255 Broad St.
Clifton, N.J. 07013
Tel: (201) 773-8200

AREAS OF INTEREST: Graphic arts; finishes; coatings; polymers; plastics; color science; dispersions; emulsions; films; organic, physical, analytical, and inorganic chemistry; physics; chemical engineering; photography; rubber, textile dyes; inks; electricity; aquaculture.

HOLDINGS: 7,000 books; 290 journals; reports, patents, films, photos, card index, data.

PUBLICATIONS: Abstract journal, technical reports, index, bibliography, and translations (all for internal use only).

INFORMATION SERVICES: Provides reference and translating services. Some materials are available for loan, for onsite reference, or for use by Government agencies and their contractors. Services are provided only after prior approval of management.

Technical, Building, and Industrial Group Library

1046 Inmont Corp.
5935 Milford Ave.
Detroit, Mich. 48210
Tel: (313) 894-4600 Ext. 223

AREAS OF INTEREST: Paint; varnish; lacquer; pigment; dye; resin; gum; polymer; monomer; plastic; thermoplastic; thermosetting; alkyd; nitrocellulose; acrylic; oils; fatty acids; solvents; additives; chemicals; film formers; paint application; polyurethane forms; emulsions; adhesion; plasticizers.

HOLDINGS: 3,400 books; 90 journals; reports, patents, data.

PUBLICATIONS: Abstract journal.

INFORMATION SERVICES: Makes limited interlibrary loans.

INSTITUTE FOR COMPOSITE MATERIALS, INC.

1047 P.O. Box 1536
Stow, Ohio 44224

Location:
877 East Steels Corners Rd.
Stow, Ohio
Tel: (216) 929-3888

AREAS OF INTEREST: Applied and fundamental aspects of plastic, ceramic, elastomeric, and metallic composite materials, including the technical, economic, environmental, and conservation of materials aspects; physical, mechanical, and chemical properties of composite materials; production, uses, and sources of composite materials.

HOLDINGS: Journals, periodicals, industrial literature, technical and scientific data, project or administrative data, Government reports, books, abstract journals, technical correspondence.

PUBLICATIONS: *Monthly Newsletter*, *The Composite Materials Review* (semiannual); manuals, standards and specifications, reports, surveys, directories, bibliographies, handbooks, proceedings of symposiums and workshops.

INFORMATION SERVICES: Answers technical inquiries; provides consulting, reference, literature-searching, abstracting, and duplication services; makes referrals; provides information on current research, development, test, and evaluation projects; furnishes data and data compilations; prepares specifications and standards; conducts symposiums, workshops, seminars, and conferences; permits onsite use of collection. Services are available only to Institute members, except by special action of the board of directors, and to selected Government agencies.

INSTITUTE FOR RAPID TRANSIT

1048 1612 K St. NW., Suite 508
Washington, D.C. 20006
Tel: (202) 638-3157

AREAS OF INTEREST: Urban mass transportation.

HOLDINGS: Books, correspondence, photos, slides, maps, charts, graphs, tables, reports, periodicals, reprints, publication lists, bibliographies, booklets, press releases, data.

PUBLICATIONS: *IRT Newsletter* (bimonthly, with extra issues containing technical reports). A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference; lends some materials.

INSTITUTE FOR RESEARCH IN VISION

see Ohio State University

INSTITUTE FOR SCIENTIFIC INFORMATION

1049 325 Chestnut St.
Philadelphia, Pa. 19106
Tel: (215) 923-3300

Branch Office:
7315 Wisconsin Ave.
Bethesda, Md. 20014
Tel: (301) 657-2366

AREAS OF INTEREST: Worldwide scientific and technical literature, including physical, chemical, mathematical, engineering, nuclear, agricultural, biological, pharmacological, medical, behavioral, social, and educational sciences.

HOLDINGS: 250 journals plus a large basic reference collection.

PUBLICATIONS: *Current Contents Life Sciences* (weekly); *Current Contents Physical Sciences* (weekly); *Current Contents Chemical Sciences* (weekly); *Current Contents Education* (weekly); *Current Contents Behavioral, Social, and Management Sciences* (weekly); *Index Chemicus* (weekly register and index of new chemical compounds and reactions); *Encyclopaedia Chimica Internationalis* (annual cumulation of *Index Chemicus* with rotoform, subject, formula, author, and journal indexes); *Permuterm Subject Index* (annual); *Science Citation Index* (quarterly and annual); *International Directory of Research and Development Scientists* (annual) listing the mailing address of publishing scientists with cross-reference by organization and location; reports, articles, state-of-the-art reviews.

INFORMATION SERVICES: In addition to the publications listed above, the Institute provides a number of services on a subscription or fee basis: *Index Chemicus Registry System* (monthly magnetic tape and printed listing of Wiswesser Line Notations and related data for 150,000 compounds covered in *Index Chemicus* each year); *Automatic Subject Citation Alert* (weekly); *ISI Source Index* and *Citation Index* computer tapes (weekly); *Original Article Tear Sheets* of original articles provided on demand; *ISI Search Service* for specific retrospective searches; and consulting on fee basis. The Institute's combined services annually cover some 400,000 current items published in over 3,000 source journals.

INSTITUTE FOR TELECOMMUNICATION SCIENCES

see Commerce, Department of. Environmental Science Services Administration. Research Laboratories

INSTITUTE FOR URBAN INFORMATION SYSTEMS

see University of Cincinnati

INSTITUTE OF ARCTIC AND ALPINE RESEARCH

see University of Colorado

INSTITUTE OF BOILER AND RADIATOR MANUFACTURERS

1050 393 Seventh Ave., 10th Floor
New York, N.Y. 10001
Tel: (212) 564-6460

AREAS OF INTEREST: Heating equipment, including boilers, radiators, water heaters, valves, controls, baseboard radiation, finned tube radiation, hot water heating, steam heating, heating equipment output, and heating equipment installation.

PUBLICATIONS: Technical reports, standards and specifications, and data handbooks, including calculation and installation guides for heating equipment and testing and rating codes for determining outputs of heating equipment.

INFORMATION SERVICES: The Institute disseminates information primarily through its publications, which are available for a fee.

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC.

1051 345 East 47th St.
New York, N.Y. 10017
Tel: (212) 752-6800

AREAS OF INTEREST: All aspects of electrical and electronic engineering, including electronic aspects of such related fields as navigation, automatic control, medicine and biology, broadcasting, circuit theory, education, computers, geoscience, human factors, information theory, instrumentation and measurement, microwave, military science, nuclear science, product engineering, radio frequency interference, reliability, space telemetry, ultrasonics, communication, transportation, power, and solid state devices.

PUBLICATIONS: *Electrical Engineering* (monthly); *Proceedings of the IEEE* (monthly); newsletters, standards and specifications, pamphlets.

INFORMATION SERVICES: IEEE provides information primarily through its publications, but the Director of Editorial Services will answer inquiries whenever possible or refer inquirers to the Engineering Societies Library and other headquarters offices, depending on the nature of the request.

INSTITUTE OF ENVIRONMENTAL SCIENCES

1052 940 East Northwest Highway
Mt. Prospect, Ill. 60056
Tel: (312) 255-1561

AREAS OF INTEREST: Environmental science, environmental engineering, and related technologies; acoustics; corrosion; cryogenics; data acquisition; electromagnetics; environmental pollution; nuclear radiation; shock and vibration; solar radiation; ultra high temperatures; space vacuum; marine environments; instrument metrology.

PUBLICATIONS: *Journal of Environmental Sciences* (bimonthly); *IES Meetings Proceedings* (annual); special publications, newsletter, brochure. A publications list is available.

INFORMATION SERVICES: Answers inquiries; sponsors tutorial sessions, technical equipment exhibits, and symposia.

INSTITUTE OF FOOD TECHNOLOGISTS

1053 221 North LaSalle St., Suite 2120
Chicago, Ill. 60601
Tel: (312) 782-8424

AREAS OF INTEREST: Food technology; application of science and engineering to the research, production, processing, packaging, distribution, preparation, and utilization of foods; chemistry; biochemistry.

PUBLICATIONS: *Food Technology* (monthly journal); *Journal of Food Science* (bimonthly); *Food Science and Technology Abstracts* (monthly); membership directory (annual); reference materials.

INFORMATION SERVICES: The Institute's Subcommittee on Technical Assistance answers inquiries, especially from developing countries, in connection with food science and technology problems. Inquires should be directed to: Mr. Harold J. Rafson, Chairman, Subcommittee on Technical Assistance, Institute of Food Technologists, 1852 Dale Ave., Highland Park, Ill. 60035.

INSTITUTE OF GAS TECHNOLOGY

Technical Information Services

1054 Institute of Gas Technology
3424 South State St.
Chicago, Ill. 60616
Tel: (312) 225-9600 Ext. 626

AREAS OF INTEREST: Natural and manufactured gas production, transmission, storage, distribution, and utilization; training of engineers in gas technology; properties of gases; analytical methods and instruments; flow of gases, including the use of radioactive tracers in measuring flow in pipelines; combustion; gasification reactions; natural gas fuel cells; internal coatings for pipes; liquefied natural gas; air conditioning; environmental science; total energy; economic studies.

HOLDINGS: 9,000 books; 7,000 journals, reports, and patents.

PUBLICATIONS: *Gas Abstracts* (monthly); *Gas Scope* (bimonthly); *Research Bulletins*; *Technical Reports*; annual report.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services; makes interlibrary loans; provides literature- and patent-searching, bibliographic, and duplication services for fee; provides MASTIR (Microfilmed Abstract System for Technical Information Retrieval) information service; permits onsite reference.

INSTITUTE OF HYDRAULIC RESEARCH

see University of Iowa

INSTITUTE OF INDUSTRIAL LAUNDERERS, INC.

1055 1726 M St. NW., Suite 308
Washington, D.C. 20036
Tel: (202) 296-6744

AREAS OF INTEREST: Industrial laundries; industrial uniforms and apparel; wiping towels; commercial washing machines and dry tumblers; laundry presses and conveyors.

PUBLICATIONS: *Industrial Launderer* (annual).

INFORMATION SERVICES: Answers technical inquiries; makes referrals; provides consulting services.

INSTITUTE OF MAKERS OF EXPLOSIVES

1056 420 Lexington Ave.
New York, N.Y. 10017
Tel: (212) 689-3237

AREAS OF INTEREST: Safety in the transportation, handling, storage, and use of commercial explosives, blasting agents, and related blasting supplies.

PUBLICATIONS: Pamphlets, including the following: *Standard Storage Magazines*; *American Table of Distances*; *Rules for Storing, Transporting & Shipping Explosives*; *Explosives in Agriculture*; *Safety in the Handling and Use of Explosives*; *Radio Frequency Energy*; *Recommended Industry Safety Standards*; and *Suggested Code of Regulations*; a series of blasting cap safety education posters and display materials intended primarily for circulation to young people.

INFORMATION SERVICES: Answers inquiries; makes referrals; distributes pamphlets.

INSTITUTE OF MINERAL RESEARCH

1057 Michigan Technological University
Houghton, Mich. 49931
Tel: (906) 487-2600

AREAS OF INTEREST: Research and development related to the mineral industry, primarily in the areas of exploration geology, mineralogy, and physical, chemical, and pyrometallurgical processes applied to the treatment of ores and other mineral materials. Included are: geophysics; sampling techniques and analysis of sampling data; microscopic, X-ray, and electron microprobe studies; measurement of properties of fine particles; chemical analysis; properties of brittle solids; crushing, grinding, autogenous grinding, pebble milling, classification, screening, flotation, dense medium and other gravity separations, heavy liquid separation, electrodynamic and magnetic separation, preconcentration by sorting, leaching, solvent extraction, ion exchange, precipitation, thickening, filtration, drying, roasting, reduction processes, and agglomeration; statistical design of experiments and analysis of data; analysis of metallurgical processes; application of digital and hybrid computers in metallurgical calculations and process simulation; and mineral industry of Michigan.

HOLDINGS: 15 drawers of special reports on sponsored metallurgical testing of ores and minerals; file of patents of metallurgical processes; 200 books; 50 standards and specifications; 100 maps and charts; 100 reference catalogs; 60 original publications; 40 masters theses; 1,000 periodicals; photos, mineral specimens, chemical standards.

PUBLICATIONS: Research reports in AIME transactions and in various technical and scientific journals.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference, bibliographic, and consulting services for fee; identifies rocks and minerals for fee; performs chemical and mineralogical analyses for fee; provides research and testing services on mineral problems on contract basis; permits onsite reference.

Facilities include extensive laboratory and pilot plant equipment for study of physical and chemical ore treatment processes, and laboratories for mineralogy, chemical analysis, fine particle study, X-ray, and electron microprobe study. The Institute has access to an IBM 360/44 computer and an EAI hybrid system, the University library, and other facilities on the campus.

INSTITUTE OF NAVIGATION

1058 815 15th St. NW., Suite 832
Washington, D.C. 20005
Tel: (202) 783-4121

AREAS OF INTEREST: Navigation, including air, space, and surface-subsurface navigation.

HOLDINGS: Back issues of *Navigation* and British Journal of Navigation; reference books on navigation.

PUBLICATIONS: *Navigation* (quarterly); proceedings of meetings (those currently available are: Navigation for Manned Space Flight; Manned Deep Submergence Vehicles; Collision Avoidance of Aircraft; Non-Hardware Aspects of Space Navigation; Supersonic Navigation--Now and Tomorrow; National Marine Navigation Meeting; Space Navigation--Present and Future; Second Symposium on Manned Deep Submergence Vehicles; Space Navigation--Theory and Practice in the Post Apollo Era; and Air Traffic Control in the 1970's).

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite use of literature collection; coordinates exchange of information with navigation societies in other countries.

THE INSTITUTE OF PAPER CHEMISTRY

1059 P.O. Box 1048
Appleton, Wis. 54911

Location:

1043 East South River St.
Appleton, Wis.
Tel: (414) 734-9251

AREAS OF INTEREST: Paper chemistry and technology in the broadest sense, including: forestry and forest genetics; pulping; bleaching; refining; paper and paperboard converting; wood chemistry; cellulose and carbohydrate chemistry; lignin chemistry; general organic, inorganic, and physical chemistry; fiber microscopy; physics; chemical engineering; mineralogy; aquatic biology; microbiology; plant biochemistry; plastics, textiles, and packaging applications; graphic arts; starch and other paper finish components; and instrumentation and testing.

HOLDINGS: The Institute's library collection represents the published matter of all major sources of pulp- and paper-related scientific information throughout the world since 1929. It regularly receives patent registers of 5 countries and journal and periodical literature of about 30 countries. Other materials are books, dissertations, proceedings of meetings, pamphlets, microfilms, and informational advertisements. The Dard Hunter Paper Museum, located on the Institute's campus, contains artifacts, materials, and publications related to the history of papermaking from its invention to the introduction of papermaking machines.

PUBLICATIONS: *The Abstract Bulletin of the Institute of Paper Chemistry* (monthly); *Keywood Supplement to the Abstract Bulletin* in printed and computer tape form (monthly); *Scan*; technical reports, a bibliographic series, academic catalog, microcard patent service, conference proceedings, informational pieces.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, literature-searching, bibliographic, translating, and duplication services; lends doctoral theses; permits onsite reference; conducts market research surveys within the pulp, paper, and related industries.

INSTITUTE OF POLAR STUDIES

see Ohio State University

INSTITUTE OF SANITATION MANAGEMENT

1060 1710 Drew St.
Clearwater, Fla. 33515
Tel: (813) 446-1674

AREAS OF INTEREST: Industrial and institutional environmental sanitation maintenance management, including housekeeping, building maintenance, insect and rodent control, maintenance of personnel facilities, and food industry sanitation; methods, training, and advancements in industrial sanitation.

HOLDINGS: A small technical library containing audio-visual materials on sanitation training and education, books, periodicals, and reports.

PUBLICATIONS: *Professional Sanitation Management* (quarterly); *ISM Digest*; *Technical and Information Reports* (24 a year); *Trade Periodicals for Sanitation Training and Education* (annual); brochure, glossary of terminology, membership directory, posters.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, reference, and literature-searching services; lends materials; conducts educational seminars, programs, and conferences; operates a speakers bureau.

INSTITUTE OF SCRAP IRON AND STEEL, INC.

1061 1729 H St. NW.
Washington, D.C. 20006
Tel: (202) 298-7660

AREAS OF INTEREST: Generation, consumption, uses, marketing, production, and processing of scrap iron and steel.

HOLDINGS: Books, reports, films, photos, data.

PUBLICATIONS: *Yearbook*; proceedings, standards and specifications, dictionary, directory.

INFORMATION SERVICES: Provides reference and consulting services.

INSTITUTE OF STORE PLANNERS

1062 P.O. Box 538
Grand Central Station
New York, N.Y. 10017

Location:
415 East 53d St.
New York, N.Y.
Tel: (212) 753-5370

AREAS OF INTEREST: Store planning; architecture.

PUBLICATIONS: *A Selected and Annotated Bibliography of Magazine Articles and Monographs on Store Planning for the Years 1964-1968*.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and limited literature-searching services.

INSTITUTE OF TEXTILE TECHNOLOGY

Textile Information Center

1063 Institute of Textile Technology
P.O. Box 391
Charlottesville, Va. 22902
Tel: (703) 296-5511

AREAS OF INTEREST: Textile technology and related sciences.

HOLDINGS: 7,200 books; 14,000 bound and microfilmed periodicals; 475 current periodical subscriptions; 30,000 patents; 60 file boxes of standards; 3,000 folders of trade literature filed by company name; 40 vertical file drawers of pamphlets, newspaper clippings, and other materials; 500 translations; 700 reprints; 1,200 technical reports. Resources in the University of Virginia's Alderman Library and other libraries in the U.S. are available through interlibrary loan and photocopying of articles from periodicals not held at the Institute.

PUBLICATIONS: *Textile Technology Digest* (monthly journal containing abstracts of current journal articles, books, pamphlets, patents, and other published materials) with semiannual and annual author, subject, and patent number indexes and a patent concordance; *Textile Technology Terms: An Information Retrieval Thesaurus*; keyterm index (monthly); various reports, most of which are confidential to member organizations but some of which are nonconfidential and available to the public; brochure describing information services; library accessions list (monthly); selected list of books recommended for a textile library.

INFORMATION SERVICES: Answers inquiries; provides consulting, computer-assisted literature-searching, selective dissemination of information, and duplication services for fee; makes interlibrary loans (and direct loans of some materials); permits onsite use of literature collection.

Facilities include an IBM 1130 computer system for storage and information retrieval.

INSTITUTE OF TRAFFIC ENGINEERS

1064 2029 K St. NW.
Washington, D.C. 20006
Tel: (202) 223-3650

AREAS OF INTEREST: Traffic engineering, including geometric design and traffic operations of roads, streets, and highways; networks; terminals; abutting lands; intersection and interchange design; traffic and intersection control; human factors in traffic; traffic accidents; highway capacity; parking; loading and unloading; speed regulation; roadway lighting; traffic planning; vehicle operating characteristics; land use; population; transportation in community development; urban transportation planning; corridor and route determinations.

HOLDINGS: Books, reports, journals, magazines, historical traffic control devices.

PUBLICATIONS: *Traffic Engineering Handbook* (3d ed., 1965); *Manual of Traffic Engineering Studies* (3d ed., 1964); *Traffic Engineering Magazine* (monthly); *Yearbook*; *An Introduction to Highway Transportation Engineering* (1968); standards and specifications, reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services. The Institute does not provide services normally provided by traffic engineering consultants or recommend specific consultants.

INSTITUTIONAL RESEARCH COUNCIL, INC.

1065 221 West 57th St.
New York, N.Y. 10019
Tel: (212) 265-4506

AREAS OF INTEREST: Performance standards for products used by institutions.

PUBLICATIONS: *IRC Certified Products List* (annual listing of hundreds of brand name items, grouped by use, which have been tested for compliance with IRC's standards of quality).

INFORMATION SERVICES: Answers inquiries; makes referrals.

Established to aid institutional consumers in making informed buying decisions, the Council conducts scientific laboratory tests of a wide variety of products, sponsors research projects of mutual interest to members, serves as a clearinghouse for dissemination of research findings of member groups, and prepares performance standards for various classes of products used by institutions.

INSTRUMENT SOCIETY OF AMERICA

1066 400 Stanwix St.
Pittsburgh, Pa. 15222
Tel: (412) 281-3171

AREAS OF INTEREST: Application of all aspects of instrumentation to industrial, laboratory, biophysical, marine, and space environments; instrumentation for analysis, automatic control, data handling and computation, telemetry, metrology, physical and mechanical measurement, and information display.

HOLDINGS: A total accumulation of technical literature (listed below) from 1945 to date.

PUBLICATIONS: *Instrumentation Technology* (monthly); *ISA Transactions* (quarterly); *ISA Instrumentation Index* (quarterly); *ISA Transducer Compendium*; *Standards and Practices for Instrumentation*; English translations of Russian instrumentation journals (monthly and bimonthly); proceedings, preprints, and abstracts of ISA sponsored and cosponsored symposia and conferences; standards and specifications, bibliographies, state-of-the-art reviews, educational aids, references, monographs.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite use of collection. The Society sponsors the Annual ISA Instrumentation-Automation Conference and Exhibit.

INSTRUMENTATION INFORMATION CENTER

see Commerce, Department of. National Bureau of Standards

INSURANCE INSTITUTE FOR HIGHWAY SAFETY

1067 2600 Virginia Ave. NW.
Washington, D.C. 20037
Tel: (202) 333-0770

AREAS OF INTEREST: Highway loss reduction; specifically, the reduction of deaths, injuries, and property damage resulting from crashes on the nation's highways.

PUBLICATIONS: *Status Report--Federal Role in Highway Safety* (biweekly newsletter); booklet containing texts of national highway safety program standards; proceedings of auto insurance industry-sponsored research conferences; reprints of speeches and articles; testimony before Congressional committees; highway safety pamphlet source list; special-subject reports.

INFORMATION SERVICES: Answers inquiries about highway loss reduction programs; disseminates information on research findings.

INTERAGENCY DATA EXCHANGE PROGRAM

1068 Army/NASA IDEP Office
Attn: AMSMI-RBP
Redstone Arsenal, Ala. 35809
Tel: (205) 876-8720

HQ SAMSO (SMSDI)
Los Angeles Air Force Station
Air Force Unit P.O.
Los Angeles, Calif. 90045
Tel: (213) 643-1021

IDEP Office (Code E-6)
U.S. Naval Fleet Missile Systems
Analysis and Evaluation Group
Corona, Calif. 91720
Tel: (714) 736-4677

AREAS OF INTEREST: Testing of missile, space vehicle, and weapon systems components and parts, including electronic, metallic, propulsion system, and other components; data processing; information storage and retrieval; test equipment calibration procedures.

HOLDINGS: 26,000 test reports; 1,200 standards and specifications; 12,000 test equipment calibration procedures; data. All holdings are on 16mm microfilm.

PUBLICATIONS: *IDEP-I: Requirements for Participation*; *IDEP-II: IDEP Generic Coding System*; *IDEP-III: Roster of IDEP Representatives*; *IDEP-IV: Program Summary*; *IDEP-V: Data Storage and Retrieval System*; *IDEP-VI: Roster of Calibration Procedures Representatives*; *IDEP-VII: Requirements for Participation in the Calibration Procedures Exchange*; *Index of IDEP Reports*.

INFORMATION SERVICES: Answers inquiries; makes referrals; periodically furnishes complete parts/component test reports and associated specifications on microfilm. Services are available only to Government agencies and their contractors who qualify for participation in the IDEP program, although brief answers to inquiries on the nature and operation of the program are furnished on a courtesy basis. Calibration procedures interchange is available to both manufacturers and users of test equipment.

INTERFERENCE CONSULTANTS, INC.

1069 P.O. Box 129
Concord, Mass. 01742
Tel: (617) 369-3921

AREAS OF INTEREST: Electromagnetic interference, including radio, television, radar, and microwave; control and effects of electromagnetic energy throughout the spectrum, including side effects in other disciplines; forecasting of magnetic storms; reactions to positive and negative ions; static; use of the brain for mechanical operation of equipment, including prosthetics.

HOLDINGS: 25,000 reports; 450 standards and specifications; 400 books; 3,000 periodicals; abstracts, newsletters, data.

INFORMATION SERVICES: Provides consulting and literature-searching services for fee; makes referrals.

INTERIOR, DEPARTMENT OF THE

Bonneville Power Administration

1070 U.S. Department of the Interior
P.O. Box 3621
Portland, Oreg. 97208

Location:

1002 Northeast Holladay St.
Portland, Oreg.
Tel: (503) 234-3361 Ext. 4445

AREAS OF INTEREST: Hydroelectric generating power systems; marketing of electric power; coordination of river water flow and electric power distribution; river basin studies; hydrology; electric utilities materials (abrasion, creep, slippage, strength, vibration); testing of materials, including high-voltage testing and chemical and metallographic analyses; HVDC; thermal and nuclear power generation; insulation of HV power lines.

HOLDINGS: Open-file reports; machine-readable retrospective search tapes containing textual summaries of international journal literature on electric power transmission and closely associated areas, 1966 to present.

PUBLICATIONS: *Advance Program* (an annual projected 10-year power program for the Columbia River Basin System); bibliographies on *Electric Vehicles*, *Underground Cables*, *High Voltage Direct Current Transmission*, and *AC Power Transmission at 600 kv and Above* (all updated at irregular intervals); *Pacific Northwest Economic Base Study for Power Markets* (covers population, labor force, personal income, agriculture and food processing, forest industries, abrasives, aluminum, copper, lead, and zinc, ferroalloys, magnesium, steel, titanium, fisheries, recreation, water, coal, natural gas, petroleum, chlorine, sulphur, phosphorus, and annual power use conference proceedings); annual report. All publications are available free.

INFORMATION SERVICES: Answers inquiries; permits onsite reference to open-file reports. Applications for enrollment in the agency's retrospective search and weekly current awareness (SDI) service will be considered.

Bureau of Commercial Fisheries

Exploratory Fishing and Gear Research Bases

1071 Exploratory Fishing and Gear Research Base
U.S. Bureau of Commercial Fisheries
P.O. Box 1668
Juneau, Alaska 99801
Tel: (907) 586-7233

Exploratory Fishing and Gear Research Base
U.S. Bureau of Commercial Fisheries
State Fish Pier
Gloucester, Mass. 01930
Tel: (617) 283-6554

Exploratory Fishing and Gear Research Base
U.S. Bureau of Commercial Fisheries
P.O. Box 1207
Pascagoula, Miss. 39567
Tel: (613) 762-4591

Exploratory Fishing and Gear Research Base
U.S. Bureau of Commercial Fisheries
2725 Montlake Blvd., East
Seattle, Wash. 98102
Tel: (206) 587-7719

AREAS OF INTEREST: Exploratory fishing operations; research and development on fishing gear and fish-locating gear.

HOLDINGS: Specimens of commercial fishes, fishing devices, unevaluated data and data compilations, films, photos, slides, maps and charts, graphs and tables, standards and specifications, books, journals, technical reports, pamphlets, abstracts, indexes, newsletters, reviews, bibliographies, display materials.

INFORMATION SERVICES: All bases answer technical inquiries, prepare analyses or evaluations, make referrals, and provide consulting or advisory services. Most permit onsite use of their collections, and some provide short lists of literature citations in response to specific inquiries, and furnish location of hard-to-find bibliographic materials.

Bureau of Land Management

1072 U.S. Department of the Interior
18th and E Sts. NW.
Washington, D.C. 20240
Tel: (202) 343-5717

AREAS OF INTEREST: Range and forest management; wildlife habitat management; classification and disposition of lands; protection of lands and resources; cadastral surveying; engineering; mineral leasing; water conservation; watershed management; stabilization of erosion; control of pollutants, sediments, and soluble solids; water control through construction of small dams; water quality; hydrology; flood prevention; phreatophyte control.

HOLDINGS: Manuals, standards, specifications.

PUBLICATIONS: *Our Public Lands* (quarterly); *Public Land Statistics* (annual); *BLM Newsletter* (for internal distribution).

INFORMATION SERVICES: Answers inquiries. Visual and audiovisual materials spotlighting various Bureau activities may be obtained through the Bureau's Information Office by reproduction or loan.

Bureau of Mines

Office of Mineral Information

1073 U.S. Bureau of Mines
18th and C Sts. NW.
Washington, D.C. 20240
Tel: (202) 343-4964

AREAS OF INTEREST: Mining; minerals; coal; petroleum; environmental problems linked to extraction, processing, and use of minerals and fuels; mine safety; natural gas; helium; metallurgy; statistics and economics of mineral resources and fuels.

PUBLICATIONS: *Minerals Yearbook* (annual, in four volumes); *Bulletins*; *Information Circulars*; *Reports of Investigations*; *Mineral Industry Surveys* (weekly, monthly, quarterly, and annual commodity reports); *New Publications--Bureau of Mines* (monthly list, with annual and five-year cumulations; listings of journal articles by Bureau specialists are included).

INFORMATION SERVICES: The Office's Division of Public Information answers inquiries and handles distribution of information to public news media through press releases, copies of speeches, and special publications. The Office arranges for the publication of reports produced by all the Bureau's divisions. The Division of Production and Distribution, 4800 Forbes Ave., Pittsburgh, Pa. 15213, (tel: (412) 621-4500) distributes single copies of the Bureau's free publications and also circulates on a free-loan basis motion pictures produced by the Bureau in cooperation with industry sponsors. A catalog of films is available from the Washington office. Bureau publications for sale may be purchased from the Superintendent of Documents, Washington, D.C. 20402.

Office of the Assistant Director- - Energy

DIVISION OF HELIUM

1074 U.S. Bureau of Mines
18th and C Sts. NW.
Washington, D.C. 20240
Tel: (202) 343-5121

AREAS OF INTEREST: Helium, its properties, uses, and production.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

Office of the Assistant Director- - Mineral Supply

1075 U.S. Bureau of Mines
18th and C Sts. NW.
Washington, D.C. 20240
Tel: (202) 343-2193

AREAS OF INTEREST: Mineral resource availability (metals, nonmetallics, mineral fuels); mineral economics; conservation of minerals; mining and milling methods and costs; water requirements of the mineral industry; annual mineral production, consumption, imports, exports, and prices, by commodity and State; international mineral developments.

HOLDINGS: Data on mineral resources production and consumption.

PUBLICATIONS: Reports of studies conducted by the Office are included in the Bureau's series of publications listed under Office of Mineral Information.

INFORMATION SERVICES: Answers inquiries on specific mineral commodities; provides consulting services. Consulting services are also offered at the following four field offices:

Eastern Field Operation Center
4800 Forbes Ave.

Pittsburgh, Pa. 15213

Tel: (412) 621-4500

Intermountain Field Operation Center
Building 20

Denver Federal Center

Denver, Colo. 80225

Tel: (303) 233-3611

Western Field Operation Center
West 222 Mission Ave.

Spokane, Wash. 99201

Tel: (509) 838-4611

Alaska Field Operation Center
Box 550

Juneau, Alaska 99801

Tel: (907) 364-2170

Office of the Deputy Director- - Health and Safety

1076 U.S. Bureau of Mines
18th and C Sts. NW.
Washington, D.C. 20240
Tel: (202) 343-4041

AREAS OF INTEREST: Health and safety conditions in the mineral industries, including research, training programs, inspection, and investigations; testing of mining equipment and machinery; mining accidents, including rescue and recovery methods.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services. Specific inquiries should be directed to the Washington office or to the Health and Safety Technical Support Center in Pittsburgh, Pa. (described below). General questions concerning the Bureau's health and safety activities may be directed to the district and subdistrict offices listed below, with inquiries addressed to the District Manager or Subdistrict manager, as appropriate.

Coal Mine Safety, District A

U.S. Bureau of Mines

4800 Forbes Ave.

Pittsburgh, Pa. 15213
Tel: (412) 621-4363

Coal Mine Safety, Subdistrict A
U.S. Bureau of Mines
233 Federal Bldg.
Wilkes-Barre, Pa. 18701
Tel: (717) 825-6321

Coal Mine Safety, Subdistrict A
U.S. Bureau of Mines
Federal Bldg.-U.S.P.O.
Johnstown, Pa. 15901
Tel: (814) 536-8988

Coal Mine Safety, Subdistrict A
U.S. Bureau of Mines
239 East Main St.
St. Clairsville, Ohio 43950
Tel: (614) 965-2297

Coal Mine Safety, District B
U.S. Bureau of Mines
P.O. Box 112
Mount Hope, W. Va. 25880
Tel: (304) 877-6605

Coal Mine Safety, Subdistrict B
U.S. Bureau of Mines
P.O. Box 880
Morgantown, W. Va. 26505
Tel: (304) 296-3251

Coal Mine Safety, District C
U.S. Bureau of Mines
P.O. Box 560
Norton, Va. 24273
Tel: (703) 679-0230

Coal Mine Safety, Subdistrict C
U.S. Bureau of Mines
P.O. Box 3417
Birmingham, Ala. 35205
Tel: (205) 325-3289

Coal Mine Safety, Subdistrict C
U.S. Bureau of Mines
P.O. Box 572
Barbourville, Ky. 49096
Tel: (606) 546-4158

Coal Mine Safety, District D
U.S. Bureau of Mines
302 North 2d St.
Vincennes, Ind. 47591
Tel: (812) 882-7617

Coal Mine Safety, Subdistrict D
U.S. Bureau of Mines
P.O. Box 817
McAlester, Okla. 74501
Tel: (918) 423-5966

Coal Mine Safety, District E
U.S. Bureau of Mines
Building 20, Denver Federal Center
Denver, Colo. 80225
Tel: (303) 233-2293

Coal Mine Safety, Subdistrict E
U.S. Bureau of Mines
P.O. Drawer J
Price, Utah 84501
Tel: (801) 524-5500

Coal Mine Safety, Subdistrict E
U.S. Bureau of Mines
1600 East 1st South
Salt Lake City, Utah 84112
Tel: (801) 524-5385

Coal Mine Safety, Subdistrict E
U.S. Bureau of Mines
7009 Federal Office Bldg.
Seattle, Wash. 98104
Tel: (206) 583-5455

Western Metal and Nonmetal Mine Safety District Office
U.S. Bureau of Mines
620 Central Ave.
Building 2F, Room 207
Alameda, Calif. 94501
Tel: (415) 273-7457

Western Metal and Nonmetal Mine Safety Subdistrict Office
U.S. Bureau of Mines
7009 Federal Office Bldg.
Seattle, Wash. 98104
Tel: (206) 583-5455

Western Metal and Nonmetal Mine Safety Subdistrict Office
U.S. Bureau of Mines
1605 Evans Ave.
Reno, Nev. 89505
Tel: (702) 784-5347

Eastern Metal and Nonmetal Mine Safety District Office
U.S. Bureau of Mines

4800 Forbes Ave.
Pittsburgh, Pa. 15213
Tel: (412) 621-4288

Eastern Metal and Nonmetal Mine Safety Subdistrict Office
U.S. Bureau of Mines
329 Federal Bldg.
Albany, N.Y. 12201
Tel: (518) 472-3648

Southeastern Metal and Nonmetal Mine Safety District Office
U.S. Bureau of Mines
P.O. Box 2445
Birmingham, Ala. 35201

Southeastern Metal and Nonmetal Mine Safety Subdistrict Office
U.S. Bureau of Mines
P.O. Box 560
Norton, Va. 24273
Tel: (703) 679-0230

North Central Metal and Nonmetal Mine Safety District Office
U.S. Bureau of Mines
321 Federal Bldg.
Duluth, Minn. 55802
Tel: (218) 727-6336

North Central Metal and Nonmetal Mine Safety Subdistrict Office
U.S. Bureau of Mines
302 North 2d St.
Vincennes, Ind. 47591
Tel: (812) 882-7617

South Central Metal and Nonmetal Mine Safety District Office
U.S. Bureau of Mines
1114 Commerce St.
Dallas, Tex. 75202
Tel: (214) 749-3415

South Central Metal and Nonmetal Mine Safety Subdistrict Office
U.S. Bureau of Mines
P.O. Box 280
Rolla, Mo. 65401
Tel: (314) 364-3169

Rocky Mountain Metal and Nonmetal Mine Safety District Office
U.S. Bureau of Mines
P.O. Box 15037
Denver, Colo. 80215
Tel: (303) 233-2271

Rocky Mountain Metal and Nonmetal Mine Safety Subdistrict Office
U.S. Bureau of Mines
1600 East 1st South
Salt Lake City, Utah 84112
Tel: (801) 524-5385

Rocky Mountain Metal and Nonmetal Mine Safety Subdistrict Office
U.S. Bureau of Mines
1110 Federal Bldg.
Phoenix, Ariz. 85025
Tel: (602) 261-3233

TECHNICAL SUPPORT CENTER

1077 U.S. Bureau of Mines
4800 Forbes Ave.
Pittsburgh, Pa. 15213
Tel: (412) 621-4500 Ext. 238

AREAS OF INTEREST: Safety conditions in the mineral industries; testing and approval of mining equipment and machinery; spontaneous combustion, static electricity, explosives, and explosions; mine illumination; methane detectors and monitoring systems; fire control; health hazards; respiratory protective equipment; sampling of toxic, radioactive, and explosive gases and dusts; recovery operations at mine fires and explosions; safety and rescue equipment; safety laws and regulations; underground ventilation; sanitary installations; dust explosions; ground control (surface and underground); respirable dust hazards; noise abatement; transportation and hoisting.

PUBLICATIONS: Reports, bulletins, information circulars.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; conducts short-term investigations.

Research Centers- - Energy

BARTLESVILLE PETROLEUM RESEARCH CENTER

1078 U.S. Bureau of Mines
P.O. Box 1398
Bartlesville, Okla. 74003
Tel: (918) 336-2400

AREAS OF INTEREST: Chemistry and composition of crude oil, natural gas, and related materials; production, transportation, storage, processing, and utilization of crude oil, natural gas, and their products and byproducts; thermodynamic properties of petroleum compounds; nuclear energy applications for petroleum production; composition of oilfield brines; composition of vehicular emissions and their effect on air pollution.

HOLDINGS: Books, journals, reports, patents, maps, microfilms, some in foreign languages; extensive file of crude-oil analyses from domestic and foreign sources; file of oilfield brine analyses; well-log file of Oklahoma oilfields. The Center is a depository for Government publications on petroleum.

PUBLICATIONS: Reports of studies by the Center are included in the *Bureau of Mines Monthly List of Publications* (cumulated annually).

INFORMATION SERVICES: Answers inquiries; provides literature-searching services; makes interlibrary loans; permits onsite reference.

GRAND FORKS COAL RESEARCH LABORATORY

1079 U.S. Bureau of Mines
Box 8213
University Station
Grand Forks, N. Dak. 58201

Location:

15 North 23d St.
Grand Forks, N. Dak.
Tel: (701) 775-4207

AREAS OF INTEREST: Combustion of lignite and Western coals; fireside deposit formation; carbonization of Western coals; preparation of lignite and Western coals; use of humic acids derived from lignite as a growth promoter for use in agriculture; gasification.

HOLDINGS: 1,000 books; 25 periodical titles; 1,000 reports.

PUBLICATIONS: The Laboratory prepares manuscripts for publication in the Bureau of Mines' series of publications (Reports of Investigations, Information Circulars, Bulletins) and journal articles.

INFORMATION SERVICES: Answers inquiries; permits onsite use of collection.

LARAMIE ENERGY RESEARCH CENTER

1080 U.S. Bureau of Mines
P.O. Box 3395
University Station
Laramie, Wyo. 82070
Tel: (307) 742-2117

AREAS OF INTEREST: Chemistry of petroleum; natural gas; asphalt; shale oil; properties and occurrence of oil shale; oil-shale coversion technology; production of petroleum and natural gas.

HOLDINGS: Maps; extensive files of crude oil and oilfield brine analyses; oil-shale cores and samples.

PUBLICATIONS: Reports of studies by the Center are included in the Bureau's series of publications listed under Office of Mineral Information.

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans of some documents; permits onsite reference.

MORGANTOWN ENERGY RESEARCH CENTER

1081 U.S. Bureau of Mines
P.O. Box 880
Morgantown, W. Va. 26505

Location:

Collins Ferry Rd.
Morgantown, W. Va.
Tel: (304) 599-3441

AREAS OF INTEREST: *Coal:* Coal and coal waste analysis; fly ash utilization; desulfurization of coal; stack gas analysis and purification; nuclear analytical methods; pneumatic transportation of coal; combustion; coal conversion to fuel and high-Btu gas; liquid fuels from coal and tar. *Petroleum:* Secondary recovery of petroleum; petroleum production stimulation by thermal and fluid injection methods; reservoir performance prediction; subsurface fracture evaluation.

HOLDINGS: 10,000 books; 250 periodical titles; 1,000 reports; Office of Coal Research publications; crude oil and oilfield brine analyses; cores and logs from selected Eastern oilfields.

PUBLICATIONS: Reports on research by the Center appear in the Bureau of Mines publications series (listed under Office of Mineral Information), technical journals, and reference media.

INFORMATION SERVICES: Answers inquiries; provides reference and duplication services; makes referrals; makes interlibrary loans; permits onsite use of collection.

PITTSBURGH ENERGY RESEARCH CENTER

1082 U.S. Bureau of Mines
4800 Forbes Ave.
Pittsburgh, Pa. 15213
Tel: (412) 892-2400

AREAS OF INTEREST: Coal preparation; coal utilization, including combustion, carbonization, and conversion to synthetic fuels and chemicals; conversion of coal to electrical energy; chemical structure and physical properties of coal; coal analysis; removal of air pollutants from flue gases.

397-710 O-LT - 71 - 18

PUBLICATIONS: Reports of studies by the Center are included in the Bureau's series of publications listed under Office of Mineral Information.

INFORMATION SERVICES: Answers inquiries; makes referrals.

SAN FRANCISCO PETROLEUM LABORATORY

1083 U.S. Bureau of Mines
1429 Appraisers Bldg.
San Francisco, Calif. 94111
Tel: (415) 556-4350

AREAS OF INTEREST: Extractive techniques for petroleum and natural gas; prediction of reservoir performance; petroleum production stimulation; fluid flow problems; chemistry of oilfield waters.

PUBLICATIONS: Reports of studies by the Laboratory are included in the Bureau's series of publications listed under Office of Mineral Information.

INFORMATION SERVICES: Answers inquiries; provides technical assistance.

Research Centers- - Metallurgy

ALBANY METALLURGY RESEARCH CENTER

1084 U.S. Bureau of Mines
P.O. Box 70
Albany, Oreg. 97321

Location:

1450 West Queen Ave.
Albany, Oreg.
Tel: (503) 926-5811

AREAS OF INTEREST: Kroll-type metallic reduction studies; melting, casting, and forming of high-purity refractory metals by high-energy input; melting processes (arc, induction, electron-beam, and conventional methods); thermodynamic properties of inorganic materials; mineral dressing; organometallic reactions; pyrometallurgy; hydrometallurgy; physical metallurgy of high temperature alloys; X-ray analyses of metals at high temperatures; gas-solid reactions; nuclear fuel materials; recovery of metal from industrial wastes and scrap metal products; brittleness in refractory metals and ceramics; ceramic fabrication techniques; superconductivity phenomena; kinetic studies of transition metals and their halides; recovery of phosphate rock from Western ores.

PUBLICATIONS: Reports of studies made by the Center are included in the Bureau's series of publications listed under Office of Mineral Information.

INFORMATION SERVICES: Provides technical assistance and consulting services; provides petrographic, metallographic, and mechanical and physical evaluations as a service to other laboratories.

BOULDER CITY METALLURGY RESEARCH LABORATORY

1085 U.S. Bureau of Mines
500 Date St.
Boulder City, Nev. 89005
Tel: (602) 293-1033

AREAS OF INTEREST: Fused-salt electrolysis of titanium, beryllium, zirconium, and vanadium; reprocessing of scrap metals by physical, pyrometallurgical, and electrometallurgical treatment.

PUBLICATIONS: Reports of studies made by the Laboratory are included in the Bureau's series of publications listed under Office of Mineral Information.

INFORMATION SERVICES: Provides advisory and consulting services in regard to technical questions on metallurgical problems.

COLLEGE PARK METALLURGY RESEARCH CENTER

1086 U.S. Bureau of Mines
College Park, Md. 20740
Tel: (301) 864-3100

AREAS OF INTEREST: Hydrometallurgy; pyrometallurgy; bacterial metallurgy; electrometallurgy; recovery of alumina from clays and dawsonite associated with oil shale; technical evaluation and cost estimation of metallurgical processes; recovery and recycling processes for secondary metals; electrostatic and magnetic separation of minerals; X-ray and electron-probe analyses; recovery of useful materials from incinerator residues; mathematical simulation of metallurgical processes.

PUBLICATIONS: Reports of studies made by the Center are included in the Bureau's series of publications listed under Office of Mineral Information.

INFORMATION SERVICES: Answers inquiries; provides consulting services; lends reports for short periods. The Center houses an Industrial Water Laboratory which analyzes feed and boiler water for U.S. Government heating plants and makes recommendations for chemical treatment. A similar service for the Federal Government is provided by a coal sampling and inspection unit located at the Center.

RENO METALLURGY RESEARCH CENTER

1087 U.S. Bureau of Mines
1605 Evans Ave.
Reno, Nev. 89505
Tel: (702) 784-5391

AREAS OF INTEREST: Recovery of gold and other heavy metals from low-grade ores; extraction and separation of rare-earths; fused-salt metallurgy (of vanadium, manganese, titanium, chromium, molybdenum, uranium, thorium, tungsten, hafnium, columbium, beryllium, yttrium, and rare-earth metals); combined pyro- and electro-metallurgical techniques to effect separations; high-temperature techniques in preparation of high-purity common metals (such as nickel and cobalt); electrorefining of metals to obtain ultra-high purity; physical evaluation of properties of metals and their alloys that are a product of research; chelation of copper oxide minerals; processing of nonferrous sulfide to recover elemental sulfur.

PUBLICATIONS: Reports of studies made by the Center are included in the Bureau's series of publications listed under Office of Mineral Information.

INFORMATION SERVICES: Provides advisory and consulting services in regard to technical questions; provides mineral identification services.

ROLLA METALLURGY RESEARCH CENTER

1088 U.S. Bureau of Mines
P.O. Box 280
Rolla, Mo. 65401

Location:

1300 Bishop St.
Rolla, Mo.
Tel: (314) 364-3169

AREAS OF INTEREST: Recovery and utilization of materials from industrial, mining, and municipal wastes; recycling of secondary materials; physical metallurgy of ferrous and nonferrous metals; extractive metallurgy and reconstitution of minerals; development of mineral detection devices.

PUBLICATIONS: Reports of studies made by the Center are included in the Bureau's series of publications listed under Office of Mineral Information.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; provides mineral identification services.

SALT LAKE CITY METALLURGY RESEARCH CENTER

1089 U.S. Bureau of Mines
1600 East 1st South St.
Salt Lake City, Utah 84112
Tel: (801) 524-5350

AREAS OF INTEREST: Improved recoveries of copper, molybdenum, magnesium, uranium, vanadium, gold, and silver from natural resources of significance via new and improved extractive metallurgy technology; recovery of useful products from solid industrial wastes, scrap automobiles, and electronic scrap; stabilization of fine mineral wastes; recovery of sulphur from copper and lead smelter gas; process development and cost evaluation studies.

PUBLICATIONS: Reports of studies made by the Center are included in the Bureau's series of publications listed under Office of Mineral Information.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services in regard to specific problems.

TUSCALOOSA METALLURGY RESEARCH LABORATORY

1090 U.S. Bureau of Mines
Box L
University, Ala. 35486
Tel: (205) 758-0491

AREAS OF INTEREST: Recovery of such industrial minerals in pure form as potash, kyanite, mica, feldspar, phosphate rock, high quality clays, iron ore, and glass sand; microgrinding mineral products to extreme fine sizes; separation by heavy liquid, flotation, and other procedures; product development and uses of waste glass and incinerator residue.

INFORMATION SERVICES: Provides technical consultations on industrial mineral problems; tests clays.

TWIN CITIES METALLURGY RESEARCH CENTER LIBRARY

1091 U.S. Bureau of Mines
Box 1660
Twin Cities, Minn. 55111
Tel: (612) 725-4503

AREAS OF INTEREST: Iron ore and copper; mineral resources of Minnesota, Iowa, Indiana, Illinois, Wisconsin, and Michigan; mining and metallurgical technology of raw materials and scrap.

HOLDINGS: 1,000 periodical titles; 5,000 reports; 1,000 books.

INFORMATION SERVICES: Answers inquiries; provides reference services; lends materials; permits onsite use of collection.

Research Centers- - Mining

DENVER MINING RESEARCH CENTER

1092 U.S. Bureau of Mines
Building 20, Denver Federal Center
Denver, Colo. 80225
Tel: (303) 233-3611

AREAS OF INTEREST: Rock mechanics as applied to ground control; stress-strength relationships in mine openings and design of adequate, safe openings of various sizes and configuration, underground and for open pits; research on safety aspects of coal and metal mining.

PUBLICATIONS: Reports of studies by the Center are included in the Bureau's series of publications listed under Office of Mineral Information.

INFORMATION SERVICES: Answers inquiries; makes referrals.

MARINE MINERALS TECHNOLOGY CENTER

1093 U.S. Bureau of Mines
3150 Paradise Dr.
Tiburon, Calif. 94920
Tel: (415) 435-3145

AREAS OF INTEREST: Marine minerals; techniques for predicting and preventing environmental disturbances; technology for sampling and delineating sea floor mineral deposits; design of marine mineral mining systems.

HOLDINGS: Technical library; bottom sampling data from sea floor.

PUBLICATIONS: Reports of studies by the Center are included in the Bureau's series of publications listed under Office of Mineral Information.

INFORMATION SERVICES: Answers inquiries; makes referrals.

PITTSBURGH MINING RESEARCH CENTER

1094 U.S. Bureau of Mines
4800 Forbes Ave.
Pittsburgh, Pa. 15213
Tel: (412) 621-4500 Ext. 360

AREAS OF INTEREST: Materials handling pertinent to mining; environmental control, including mine atmosphere and water control and drainage.

PUBLICATIONS: Reports of studies by the Center are included in the Bureau's series of publications listed under Office of Mineral Information.

INFORMATION SERVICES: Answers inquiries; makes referrals.

SAFETY RESEARCH CENTER

1095 U.S. Bureau of Mines
4800 Forbes Ave.
Pittsburgh, Pa. 15213
Tel: (412) 621-4500 Ext. 260

AREAS OF INTEREST: Safety and efficiency of commercial explosives and blasting agents; hazardous chemicals and unwanted fires and explosions; testing and approval of explosives for use in underground coal mines; safety conditions in the mineral industries; hazards of cryogenic materials, spontaneous combustion, and static electricity; mine illumination; firefighting and fire control; health hazards; methane detectors and monitoring systems; respiratory protective equipment; recovery operations at mine fires and explosions; safety and rescue equipment; dust explosions.

PUBLICATIONS: Reports of studies made by the Center are included in the Bureau's series of publications listed under Office of Mineral Information.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

SPOKANE MINING RESEARCH LABORATORY

1096 U.S. Bureau of Mines
1430 North Washington St.
Spokane, Wash. 99201
Tel: (509) 838-3361

AREAS OF INTEREST: Fundamentals and design of artificial stabilization of underground and open-pit openings; determining relationships between stress or underground pressure concentrations and the type, size, and kind of artificial support systems required to counteract or control these forces.

PUBLICATIONS: Reports of studies by the Laboratory are included in the Bureau's series of publications listed under Office of Mineral Information.

INFORMATION SERVICES: Answers inquiries; makes referrals.

TWIN CITIES MINING RESEARCH CENTER

1097 U.S. Bureau of Mines
P.O. Box 1660
Twin Cities, Minn. 55111
Tel: (612) 725-4560

AREAS OF INTEREST: Rock penetration and fragmentation by various energy mechanisms such as explosives, mechanical, thermal, hydraulic, and chemical; studies of rock properties related to fragmentation.

PUBLICATIONS: Reports of studies made by the Center are included in the Bureau's series of publications listed under Office of Mineral Information.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Bureau of Outdoor Recreation

1098 U.S. Department of the Interior
19th and C Sts. NW.
Washington, D.C. 20240
Tel: (202) 343-5726

AREAS OF INTEREST: Outdoor recreation needs, demands, resources, and research; Land and Water Conservation Fund; environmental quality and technical assistance; national and State planning; nationwide outdoor recreation plan; resource area studies; Federal coordination; river basin studies; water resource projects.

HOLDINGS: Extensive project files and reference collection of published technical literature.

PUBLICATIONS: *Outdoor Recreation Action* (quarterly); *Federal Focal Point in Outdoor Recreation*; *Federal Assistance in Outdoor Recreation*; *Private Assistance in Outdoor Recreation*; *Coordination of Federal Outdoor Recreation Assistance Programs*; *Guides to Outdoor Recreation Areas and Facilities*; *Federal Outdoor Recreation Programs and Recreation-Related Environmental Programs*; *Outdoor Recreation Research Catalog*.

INFORMATION SERVICES: Answers inquiries dealing with all areas of interest to the Bureau; makes referrals.

Bureau of Reclamation

Columbia Basin Project

1099 Bureau of Reclamation
U.S. Department of the Interior
P.O. Box 815
Ephrata, Wash. 98823

Location:
C St. NW. and Division
Ephrata, Wash.
Tel: (509) 754-4611

AREAS OF INTEREST: The multipurpose Columbia Basin Project and its development for irrigation, power, flood control, and recreation.

HOLDINGS: A library of several hundred technical reports.

INFORMATION SERVICES: Answers inquiries involving general and technical information on the Columbia Basin Project; permits onsite use of collection.

Office of Chief Engineer

1100 Bureau of Reclamation
U.S. Department of the Interior
Building 67, Denver Federal Center
Denver, Colo. 80225
Tel: (303) 233-3611

AREAS OF INTEREST: Irrigation; municipal and industrial water supply; generation, transmission, and sale of hydroelectric energy; flood control; river regulation; navigation improvements; sediment control; salinity and pollution abatement; dams; concrete and constituents thereof; hydraulics, including studies of spillways, outlet works, sediment-control structures, water conveyance systems, water-measurement devices, and flow in aquifers; soil embankments and soil and rock foundations; geology; soils and water for agricultural purposes; protective coatings and bituminous materials; corrosion problems; special techniques such as X-ray diffraction, chemical and thermal analysis of materials, and the application of radioisotopes; phreatophyte and aquatic weed control; runoff forecasting; economic analyses of resource areas and water yields; efficient uses of water; water quality and pollution control; methods for reducing seepage losses; atmospheric water resources research.

HOLDINGS: A technical library of books, journals, and reports, including material in foreign languages. (The Denver Information Storage and Retrieval Center is building an information retrieval capability.)

PUBLICATIONS: Reclamation project data, Reclamation Instructions, water resources technical publications, design standards, manuals and tables, technical records of design and construction, engineering monographs. A list of publications is available. The bulletin *RECAP* (Reclamation's Current Awareness Program) announces inputs to a selective dissemination of information system.

INFORMATION SERVICES: Answers inquiries. Published materials are accessible to scientific and technical personnel outside the Bureau. Material is available for interlibrary loan, with the exception of proprietary or copyrighted information. Reference and bibliographic services are provided to Bureau personnel and to Government agencies engaged in cooperative projects with the Bureau. Limited translation capabilities are available in French and Russian. Personal visits to the Bureau's regional offices are welcome, or written inquiries may be directed to Regional Directors, Bureau of Reclamation, at the following addresses:

Federal Bldg., U.S. Court House
550 West Fort St.
P.O. Box 8008
Boise, Idaho 83707

Federal Office Bldg.
2800 Cottage Way
Sacramento, Calif. 95825

Administration Bldg.
P.O. Box 427
Boulder City, Nev. 89005

125 South State St.
P.O. Box 11568
Salt Lake City, Utah 84111

Herring Plaza
317 East 3d St.
P.O. Box 1609
Amarillo, Tex. 79105

316 North 26th St.
P.O. Box 2553
Billings, Mont. 59103

Building 20
Denver Federal Center
Denver, Colo. 80225

Bureau of Sport Fisheries and Wildlife

Division of Engineering

1101 U.S. Bureau of Sport Fisheries and Wildlife
18th and C Sts. NW.
Washington, D.C. 20240
Tel: (202) 343-2949

AREAS OF INTEREST: Engineering services in fish and wildlife conservation, including planning, coordination, and review of all phases of the work in the construction, alteration and maintenance of improvements, buildings, laboratories, fish hatcheries, and water control and transportation facilities for diversion, distribution, or impoundment; use and reuse of water; negotiating of water right agreements; cadastral surveys in connection with the acquisition and disposal of land and improvements; evaluation of engineering phases of the work program of other agencies as they affect fish and wildlife resources.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Federal Water Quality Administration

Pacific Northwest Water Laboratory

1102 200 Southwest 35th St.
Corvallis, Oreg. 97330
Tel: (503) 752-4281

AREAS OF INTEREST: Water pollution control research activities, national and regional in scope. The national research and development programs relate to eutrophication, coastal pollution, thermal pollution, and to industrial waste treatment in the areas of food, paper and allied products, and forestry and logging. Regional programs involve application of available knowledge to the remedy of regional water pollution problems.

HOLDINGS: A collection of books, Government reports, and periodicals specializing in water resources and pollution control information.

PUBLICATIONS: Quarterly progress report; specialized project reports.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite use of collection. Training courses are available to technical and administrative personnel to communicate the latest information in general and specialized areas of water pollution control technology.

Division of Technical Support

1103 Federal Water Quality Administration
U.S. Department of the Interior
Washington, D.C. 20242
Tel: (703) 557-1601

AREAS OF INTEREST: Pollution from municipal, industrial, and agricultural sources; fishkills; sources of mineral pollutants; mathematical models of river basins and estuaries; stream flow regulation; methods and costs of waste water treatment related to quality management in receiving waters; water quality data and waste sources inventories.

HOLDINGS: Report files on technical studies of reservoirs, streams, and estuaries undertaken by the Division; water quality data and waste sources inventories.

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Answers inquiries relating to Division programs; makes referrals; provides technical assistance, including field and laboratory studies, to industries, municipalities, and State, interstate, and Federal agencies; provides water quality and waste source data; provides speakers in the Division's areas of interest.

TECHNICAL ADVISORY AND INVESTIGATIONS BRANCH

1104 Federal Water Quality Administration
5555 Ridge Ave.
Cincinnati, Ohio 45213
Tel: (513) 871-1820

AREAS OF INTEREST: Water pollution, including effects on water quality; aquatic biology; sewage; sewage treatment; industrial wastes; waste treatment; radiological pollution.

HOLDINGS: Reference collection of books, periodicals, and reports. The basic library is combined with the Library of the Robert A. Taft Sanitary Engineering Center.

PUBLICATIONS: Bibliographies, books, reports.

INFORMATION SERVICES: Answers brief inquiries; provides consulting services; conducts field investigations of water quality problems. Extensive services are provided only to Federal, State, and local agencies.

TECHNICAL DATA AND INFORMATION BRANCH

1105 Division of Technical Support
Federal Water Quality Administration
U.S. Department of the Interior
Washington, D.C. 20242

Location:

1921 Jefferson Davis Highway
Arlington, Va.
Tel: (703) 557-7632

AREAS OF INTEREST: Chemical, physical, biological, and radiological characteristics of water, including organic chemical content (pesticides, detergents, etc.), coliform organisms, plankton, and benthos populations; intra- and inter-laboratory analytical quality control; continuous electronic monitoring and telemetry of water quality data; sources and effects of pollutants on streams, lakes, and coastal waters; municipal and industrial waste treatment and control facilities; pollution-caused fishkill statistics; water supply facilities; sewerage and waterworks construction and financing; computer storage, retrieval, and evaluation of water quality data; related water pollution control information.

PUBLICATIONS: *Compilation of Water Quality Data* (annual 1957-63, irregular thereafter); *Sewage Collection and Treatment Works Construction* (annual); *Pollution-Caused Fish Kills* (annual); *Inventory of Municipal Waste Facilities* (every 5 years).

INFORMATION SERVICES: Performs extensive statistical operations on water quality data, using electronic storage and retrieval system (service is available to Government agencies only); provides specialized chemical analyses for Federal Government agencies on fee and facilities-available basis; conducts analytical quality control programs; conducts seminars and refresher courses on laboratory techniques, instrumentation, and data storage and retrieval.

National Marine Water Quality Laboratory

1106 Federal Water Quality Administration
P.O. Box 277
West Kingston, R.I. 02892

Location:

Liberty Lane at Fairgrounds Rd.
West Kingston, R.I.
Tel: (401) 789-9738

AREAS OF INTEREST: Water quality requirements for various water uses, especially environmental requirements, and toxicology as related to marine organisms.

HOLDINGS: Small collection of reference texts; Dr. Paul S. Galtsoff reprint collection on oysters especially related to legislation.

PUBLICATIONS: Reprints of printed papers (distributed free to researchers).

INFORMATION SERVICES: Answers some inquiries on water quality requirements.

National Water Quality Laboratory

1107 Federal Water Quality Administration
6201 Congdon Blvd.
Duluth, Minn. 55804
Tel: (218) 727-6692 Ext. 538

AREAS OF INTEREST: Development of limits of contamination (water quality requirements) for all water uses, including municipal, industrial, agricultural, and aquatic life, with current emphasis on aquatic life and chronic toxicity testing of fish and invertebrates.

HOLDINGS: Small collection of books, periodicals, and reports.

PUBLICATIONS: Quarterly and annual reports, technical articles in recognized journals.

INFORMATION SERVICES: Answers inquiries; provides consulting services to public agencies.

Office of Public Information

1108 Federal Water Quality Administration
Washington, D.C. 20242

Location:
1921 Jefferson Davis Highway
Crystal Mall, Building 2, Room 810
Arlington, Va.
Tel: (703) 557-7373

AREAS OF INTEREST: Programs and policies of the Federal Water Quality Administration.

HOLDINGS: A small reference collection of technical reports, speeches, and papers delivered by officials of the agency, and public information material.

PUBLICATIONS: Brochures describing the national water pollution problem (a publications list is available).

INFORMATION SERVICES: Answers inquiries; issues press releases on program developments; explains the agency's programs and policies to the press and public; produces fact sheets, pamphlets, films, exhibits, photographs, and other public information materials. Copies of agency publications are available on request; other materials are available on a loan basis.

Office of Research and Development

1109 Federal Water Quality Administration
633 Indiana Ave. NW.
Washington, D.C. 20242
Tel: (202) 343-3553

AREAS OF INTEREST: Treatment of water supplies and waste water; sources, fate, and identification (physical, chemical, biological) of pollutants; eutrophication; stream pollution; sewage wastes and treatment of nutrients, organics, colloidal solids, inorganics, and microorganisms; water quality control; water resources planning, renovation, and reuse; water conservation; salt water intrusion; mine drainage; thermal pollution; oil pollution; waterborne wastes from municipalities, industries, agriculture, mining, ships, dredging, recreation, and other sources.

HOLDINGS: Small working collection of books, journals, and technical progress and final reports.

INFORMATION SERVICES: Answers inquiries; provides consulting and limited reference services; provides bibliographic citations and abstracts; makes referrals; makes interlibrary loans. Results of all FWQA research and development efforts are made available to the scientific community by various means, including technical news releases, press releases, publication in professional and technical journals, oral presentations at meetings of scientific and technical societies, and seminars conducted at regional offices.

PROJECT REPORTS SYSTEM

1110 Office of Research and Development
Federal Water Quality Administration
Washington, D.C. 20242

Location:
1921 Jefferson Davis Highway
Arlington, Va. 22202
Tel: (703) 557-7313

AREAS OF INTEREST: Indexing, storage, and dissemination of research documents; index terms in the fields of municipal, industrial, agricultural, and mining pollution control technology; control of pollution from other sources; water quality control; waste treatment technology; water quality requirements.

HOLDINGS: Over 1,000 documents pertaining to research conducted by recipients of the agency's grants and contracts and in-house research, and general scientific and technological documents from other sources.

INFORMATION SERVICES: Answers inquiries; provides reference services for other Government agencies, professionals, and private institutions and individuals; disseminates research reports.

Ohio Basin Region Office Library

1111 Federal Water Quality Administration
4676 Columbia Parkway
Cincinnati, Ohio 45226
Tel: (513) 871-1820 Ext. 410

AREAS OF INTEREST: Water pollution control and abatement; pollution from industrial, municipal, and agricultural sources; storm sewer overflows; detergent pollution, acid mine drainage, and pesticides; sewage treatment plant construction and operation; combined storm and sanitary sewers; effects of pollution on aquatic biology; limnology; eutrophication of lakes; advanced sewage treatment processes; water reuse; water quality criteria; training of treatment plant operators; training of State water pollution control personnel; water quality standards; water pollution control legislation; mathematical models of river basins; water quality management; water quality surveillance; water analysis.

HOLDINGS: About 10,000 books and 400 current journals; pamphlets, reports.

PUBLICATIONS: Acquisitions lists, list of current periodicals.

INFORMATION SERVICES: Answers general inquiries; assists technical personnel with their information needs; makes referrals; makes interlibrary loans; provides duplication services on request; permits onsite reference by all researchers.

Southeast Region Office

1112 Federal Water Quality Administration
1421 Peachtree St. NE., Suite 300
Atlanta, Ga. 30309
Tel: (404) 526-3361

AREAS OF INTEREST: Sciences and engineering related to water pollution and pollution control.

PUBLICATIONS: Reports, directories, abstracts.

INFORMATION SERVICES: Answers inquiries; provides reference services.

Fish and Wildlife Service

see Bureau of Commercial Fisheries *or* Bureau of Sport Fisheries and Wildlife *listed among Interior Department bureaus above*

Geological Survey

1113 U.S. Department of the Interior
18th and F Sts. NW.
Washington, D.C. 20242
Tel: (202) 343-3888

The Geological Survey's primary responsibilities are: the determination, appraisal, and conservation of the Nation's mineral and water resources; the delineation of the physical features of the United States, its territories and possessions; the supervision of mineral, oil, and gas leases on Federal and Indian lands; and the classification of the public lands for mineral and waterpower potential. To attain these objectives, the Survey prepares maps, collects and interprets data on mineral and water resources, performs fundamental and applied research in the sciences and techniques involved, and publishes and disseminates the results of its investigations in maps and reports.

AREAS OF INTEREST: Geology; geophysics; geochemistry; paleontology; paleobotany; ecology; biochemistry; economic geology; geomorphology; seismology; volcanology; mineralogy; petrology; crystallography; geochronology; oceanography; hydrology; water resources; hydraulics; water chemistry; sedimentation and sediments; erosion; limnology; cartography; geodesy; instrumentation for continuous water-quality measurements; eutrophication; coordination of acquisition of certain water data by Federal agencies; design and operation of the National Water Data Network; remote sensing technology; photogrammetry; geography; water power.

PUBLICATIONS: Publications available for purchase from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402, include: *Professional Papers*; *Bulletins*; *Water-Supply Papers*; *Geophysical Abstracts* (monthly); *Abstracts of North American Geology* (monthly); *Geological Survey Research* (annual); and *Bibliography of North American Geology* (annual). A complete list of formal literature prepared by the Geological Survey will be found in *Publications of the Geological Survey* (annual supplements to this list are available without charge from the Survey headquarters in Washington). Also available without charge: *Geological Survey Circulars* (research project information); *Index to Catalog of Information on Water Data* (information on water data acquisition activities of the Federal Government coordinated by the Office of Water Data Coordination, published in four separate volumes: surface-water stations, water-quality stations, ground-water stations, and water-resources investigations); and *Summaries of the Hawaiian Volcano Observatory* (quarterly). Geologic maps, mineral resources maps and charts, hydrologic investigations atlases, topographic maps, and general or area maps and charts prepared by the Geological Survey are offered for sale. Sales services are described below.

INFORMATION SERVICES: Written inquiries should be forwarded to the Director, U.S. Geological Survey, at the address given above. Over-the-counter sales of many Survey publications and maps are handled at the Public Inquiries Offices listed below. These Offices are not equipped to handle mail orders for materials. Their principal purpose is to provide convenient public contact points for information concerning the work of the Geological Survey and for obtaining publications and maps. Mail orders for maps and charts covering areas *east of the Mississippi* should be addressed to the Distribution Section, U.S. Geological Survey, 1200 South Eads St., Arlington, Va. 22202. For area coverage *west of the Mississippi*, including all of Minnesota and Louisiana, mail orders should be addressed to the Distribution Section, U.S. Geological Survey, Federal Center, Denver, Colo. 80225. Requests for maps of Alaska, originating in Alaska, may be addressed to the Distribution Section, U.S. Geological Survey, 310 First Ave., Fairbanks, Alaska 99701. The Public Inquiries Offices are located as follows:

U.S. Geological Survey
Thomas Bldg., Room 602
1314 Wood St.
Dallas, Tex. 75202

U.S. Geological Survey
Federal Office Bldg., Room 8102
125 South State St.
Salt Lake City, Utah 84111

U.S. Geological Survey
7638 Federal Bldg.
300 North Los Angeles St.
Los Angeles, Calif. 90012

U.S. Geological Survey
1012 Federal Bldg.
1961 Stout St.
Denver, Colo. 80202

U.S. Geological Survey
504 Customhouse
555 Battery St.
San Francisco, Calif. 94111

U.S. Geological Survey
678 U.S. Court House
West 920 Riverside Ave.
Spokane, Wash. 99201

U.S. Geological Survey
108 Skyline Bldg.
503 Second Ave.
Anchorage, Alaska 99501

Geological Survey Library

1114 18th and F Sts. NW.
Washington, D.C. 20242
Tel: (202) 343-3863

Branch Libraries:

U.S. Geological Survey Library
Federal Center
Denver, Colo. 80225
Tel: (303) 233-3611 Ext. 6733

U.S. Geological Survey Library
345 Middlefield Rd.
Menlo Park, Calif. 94025
Tel: (415) 325-6761 Ext. 208 or 209

U.S. Geological Survey Library
Center of Astrogeology
601 East Cedar Ave.
Flagstaff, Ariz. 86001
Tel: (602) 774-1455

AREAS OF INTEREST: All branches of the geological sciences; engineering and physical sciences; related aspects of the life sciences.

HOLDINGS: The holdings of the Main Library consist of books (almost 422,000), journals (about 1,500 periodicals are received regularly), data, and topographic and geologic maps (about 208,000). The Branch Libraries have less extensive holdings. All four libraries are supplied with copies of all major Geological Survey publications. In addition, the Denver library has a field record and photographic collection for geological expeditions from 1869 to the present, and a special collection of well logs. The Flagstaff library has emphasis on astronomy as it relates to astrogeology and on celestial physics.

INFORMATION SERVICES: The Main Library and its branches are open to the public for reference. The Denver library's collection of well logs is available only to Survey and Atomic Energy Commission personnel, and its collection of field records is available to persons outside the Survey only by permission of the Director. A publications exchange program is maintained with approximately 800 foreign institutions and 200 in the United States. Interlibrary loan services are provided to other Government agencies, educational institutions, and industry. Materials are made available for duplication through commercial firms. Survey still photographs may be purchased from the Denver library.

Map Information Office

1115 U.S. Geological Survey
18th and F Sts. NW.
Washington, D.C. 20242
Tel: (202) 343-2446

AREAS OF INTEREST: Maps; aerial photography; geodetic control; mapping programs and activities of

Federal and State agencies and private organizations.

PUBLICATIONS: State index maps, showing the status of published topographic maps and the status of aerial photography (including aerial mosaics) in the United States and the names and addresses of the agencies that hold the film; descriptive lists of geographic features of selected maps published by the Geological Survey and other agencies; selected aerial photograph negatives of outstanding geologic features.

INFORMATION SERVICES: The Map Information Office is maintained by the Geological Survey as a central U.S. Government service to Federal and State agencies and the public. It collects, organizes, and distributes, free on request, information about the availability of topographic map coverage, aerial photography, satellite photography, and geodetic control surveys in each State, Puerto Rico, the Virgin Islands, Guam, Micronesia, and American Samoa. This office disseminates published maps and advance prints of maps in preparation. Except for material under security restrictions, aerial photographs for which the Geological Survey holds the negatives and lists describing geodetic control established by the Survey are for sale to the public. Requests for prints from negatives held by other agencies are referred to those agencies. Similar services are provided by the following offices in their respective areas:

U.S. Geological Survey
1109 North Highland St.
Arlington, Va. 22210

U.S. Geological Survey
9th and Pine Sts.
Rolla, Mo. 65401

U.S. Geological Survey
Federal Center
Denver, Colo. 80225

U.S. Geological Survey
345 Middlefield Rd.
Menlo Park, Calif. 94025

Public Information Office

1116 U.S. Geological Survey
18th and F Sts. NW.
Washington, D.C. 20242
Tel: (202) 343-4646

AREAS OF INTEREST: Activities, programs, and interests of the Geological Survey.

PUBLICATIONS: A series of popular publications intended to answer public inquiries concerning the earth sciences and the activities of the Geological Survey.

INFORMATION SERVICES: This Office prepares news releases and features and provides photographs and special reports on a variety of current scientific and technical subjects relating to the programs and interests of the Geological Survey.

Water Resources Division

1117 U.S. Geological Survey
18th and F Sts. NW.
Washington, D.C. 20242
Tel: (202) 343-3595

AREAS OF INTEREST: Properties of water; drainage, runoff, and watersheds; evaporation; meteorology; precipitation; hydraulics; streams and streamflow; ground water; soil water; lakes and reservoirs; water-plant relationship; erosion, sedimentation, and sediments; quality of water; estuarine problems; water utilization; agriculture; irrigation; pesticides; water management; water pollution effects, water pollution sources, and effects on water quality; waste treatment and disposal; waste water disposal; planning and water resources development; water law; environments; water resources studies; wells and corrosion of well casings; water cycle in general; aquifers; flood control and prevention; frozen ground; geochemistry; glaciology; hydrology; ice; instrumentation; phreatophyte control; salt-water intrusion; coordinated acquisition, cataloging, and dissemination of Federal water-data information.

HOLDINGS: About 25,000 books, reports, journals, maps, and charts pertaining to water resources; about 250 million items of water data, 2,000 data compilations, 100,000 water-well core samples, 50 analog models of surface- or ground-water occurrences, 40 magnetic tapes of data on streamflow and quality of water, and 100 computer programs on water resources studies.

PUBLICATIONS: Of the established series of publications of the Geological Survey, information on water resources appears principally in *Professional Papers*, *Bulletins*, *Water-Supply Papers*, *Circulars*, *Hydrologic Atlases*, and the annuals, *Geological Survey Research* and *Bibliography of Hydrology*. *Techniques of Water-Resources Investigations of the United States Geological Survey* is a recently established series. Nontechnical reports include primers on water, ground water, and water quality. The *Water Resources Review*, a monthly summary of streamflow and ground water conditions, *State Water Resources Investigation Folders*, indexes to State water-resources investigations, and *Circulars* are provided free on request.

INFORMATION SERVICES: Requests for general information in the field of water resources are answered by the Special Reports Unit, and those for information on water-data sources and the national water-data network are answered by the Office of Water Data Coordination. Requests for detailed information on specific localities are frequently referred by the Special Reports Unit to the District Offices of the Water Resources Division, located throughout the United States and in Puerto Rico. These maintain major research or investigative offices and laboratories and, in cooperative programs with States and Federal agencies, operate the hydrologic-data network of about 8,500 stream-gaging stations, 1,200 lake- and reservoir-level stations, and 25,000 regular network and project observation wells. They also monitor chemical properties, sediment content, and temperatures of surface waters at about 2,200 water-quality stations. Published reports may be used in the Division and field offices, and water-data files and open-file reports maintained by the Districts are available for local consultation.

Museum of the Department of the Interior

1118 C St. between 18th and 19th Sts. NW.
Washington, D.C. 20240
Tel: (202) 343-5016

AREAS OF INTEREST: Conservation of natural resources; reclamation; recreation; surveying; mapping; engineering; mining; American Indians; Alaskan Eskimos; fish and wildlife.

HOLDINGS: Rock and mineral drill core samples; specimens of meteorites, fossils, petrified wood, stalactites, tectites, and impactites; instruments for surveying, etc.; 65 Indian, Eskimo, and South Sea Island native handicraft models, including 14 dioramas; films, photos, slides, maps, charts, books, journals, pamphlets, posters, clippings, documents.

PUBLICATIONS: Pamphlets, newsletters.

INFORMATION SERVICES: Answers inquiries; makes referrals, provides consulting services; shows movies.

National Park Service

Division of Information

1119 National Park Service
U.S. Department of the Interior
18th and C Sts. NW.
Washington, D.C. 20240
Tel: (202) 343-4747

AREAS OF INTEREST: Parks and other public recreational lands and facilities (land acquisition, design, architecture, construction, maintenance); conservation of scenery, natural objects, and wildlife; mountaineering; search and rescue; American history (military, political, economic, cultural); historic sites, buildings, and landmarks; archeology and natural history of river basins and dam sites; geology; geological mapping; paleontology; geochronology; glaciology; hydrothermal studies; palynology; economics (impact of recreational developments on local economies); biology; national park fauna and flora and control of unnatural diseases and insect pests; tree husbandry; forest fire control; natural history of sheep, bears, elk, moose, and wolves; fragile alpine environments; radiological monitoring of fish and fisheries; beach maintenance.

PUBLICATIONS: *National Parks of the United States* (8 maps plus concise information of *United States*; *Midwest*; *New York City*; *Northeast*; *Southeast*; *Southwest*; *Washington, D.C.*; and *West*); *National Park Service Preservation Programs* (*Archeological Program*; *Natural Landmarks Program*; *Historic American Buildings Survey*; *National Historic Landmarks Program*; *National Register of Historic Places*); *Living History in the National Park System*; *Visitor Facilities and Services Furnished by Concessioners*; *Administrative Policies* (3 volumes: *Natural Areas*; *Historical Areas*; *Recreational Areas*); *Public Use of the National Parks: A Statistical Report* (cumulative monthly report of National Park System visits for calendar and fiscal years; December report has yearly totals for last two years); *Boating Regulations in the National Park System*; *Camping in the National Park System*; *Fishing in the National Park System*, *Travel and the National Parks: An Economic Study*; *Careers in the National Park Service*; *Seasonal Employment in the National Park Service*; *Training Opportunities*; *Welcome to Washington* (a visitor's aid); brochures on the various units of the National Park System and historical and natural history handbooks.

INFORMATION SERVICES: Answers inquiries concerning the natural, historic, and recreation units of the National Park System; makes referrals to other offices of the National Park Service when inquiries involve scientific, historical, or other programs of the Service; provides consulting services as staff time permits.

Division of Land and Water Rights

BRANCH OF WATER RESOURCES

1120 Division of Land and Water Rights
National Park Service
U.S. Department of the Interior
Washington, D.C. 20240
Tel: (202) 343-3306

AREAS OF INTEREST: Water resources in National Parks, including water conservation, water supply and quality, and water rights; hydrology; hydraulic engineering.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Office of Coal Research

1121 U.S. Department of the Interior
18th and C Sts. NW.
Washington, D.C. 20240
Tel: (202) 343-5533

This Office receives proposals for coal research from qualified research organizations and awards contracts for research and development. Projects are carried through the design and development of processes and products through use of prototype devices and pilot plants.

AREAS OF INTEREST: Coal research, with emphasis on (1) new uses of coal for which there is substantial market potential; (2) more efficient conservation and utilization of coal, including modifications to avoid pollution of air and water; (3) more efficient mining, preparation, and transportation of coal; and (4) studies for developing coal technology by increasing application of other existing and emerging technologies.

PUBLICATIONS: Technical reports, annual report.

INFORMATION SERVICES: Answers technical inquiries regarding research projects.

Office of Geography

1122 U.S. Department of the Interior
18th and C Sts. NW.
Washington, D.C. 20240
Tel: (202) 343-2514

AREAS OF INTEREST: Foreign geographic nomenclature; name standardization; generic parts of geographic names; geographic features to which names are applied; transliteration systems.

HOLDINGS: Extensive files of standard geographic names of foreign areas; research reports.

PUBLICATIONS: Gazetteers and compilations of official standard names approved by the Board on Geographic Names; romanization systems for nonroman alphabets.

INFORMATION SERVICES: Answers inquiries.

Office of Information

1123 Office of the Secretary
U.S. Department of the Interior
18th and C Sts. NW.
Washington, D.C. 20240
Tel: (202) 343-3171

AREAS OF INTEREST: Conservation and management of natural resources.

INFORMATION SERVICES: This Office handles inquiries regarding general aspects of the Department's programs in conservation and management of natural resources. Questions concerning specific aspects should be directed to the appropriate bureau or office. The Office issues press releases announcing reports and publications on research conducted by the Department, on awarding of contracts, and on other activities of interest to the general public and the scientific community. It also issues general-interest publications and leaflets on certain phases of conservation research.

Office of Library Services

1124 U.S. Department of the Interior
18th and C Sts. NW.
Washington, D.C. 20240
Tel: (202) 343-5815

AREAS OF INTEREST: Conservation; research in and development of natural resources (domestic and foreign), including minerals, water, fish, and wildlife; public lands; American art and history, with emphasis on areas designated as national monuments or of national historic interest; parks (national, state, local, foreign); outdoor recreation, including recreational areas, facilities, and outdoor sports; American Indians (history, legal aid, social and economic development); territories administered by the United States; hydroelectric power and irrigation (domestic and foreign); law and legislation.

HOLDINGS: 700,000 books; 4,000 periodicals; 4,000 serials; translations, microfilms. The Library is the official depository for all Department publications, and maintains a small rare book collection, with emphasis on the field of natural history.

PUBLICATIONS: Bibliographies.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides "table of contents" services in periodicals in the fields of management, water resources, and law; makes interlibrary loans; provides duplication and translation-searching services. The Library provides regular services to all bureaus and offices of the Department in the Washington area with the exception of the Geological Survey, which maintains a separate library facility. It also serves Department field offices as requested.

Office of Marine Affairs

1125 U.S. Department of the Interior
Washington, D.C. 20240
Tel: (202) 343-5340

This Office coordinates all marine resource activities within the Department, working closely with some 10 Bureaus and Offices having an interest in the resources of the sea.

AREAS OF INTEREST: Research and development of marine resources.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries or refers inquirers to the appropriate Bureau or Office.

Office of Minerals and Solid Fuels

1126 U.S. Department of the Interior
18th and C Sts. NW.
Washington, D.C. 20240
Tel: (202) 343-4776

AREAS OF INTEREST: Production and availability of metals, minerals, and solid fuels, domestic and foreign; stockpiling of strategic and critical materials; disposal of surplus inventories; export and import controls; national emergency planning.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Office of Oil and Gas

1127 U.S. Department of the Interior
18th and C Sts. NW.
Washington, D.C. 20240
Tel: (202) 343-3831

AREAS OF INTEREST: Government policies for oil and gas; liaison with and national and international emergency planning for petroleum and natural gas industries.

PUBLICATIONS: *Petroleum Supply and Demand in the Free World* (annual); *Estimated International Flow of Petroleum and Tanker Utilization* (annual); *What Is the Emergency Petroleum and Gas Administration* (1966); *Emergency Operations Guide for the Natural Gas Transmission and Distribution Industry* (1967).

INFORMATION SERVICES: Provides expert advice with respect to national and international policies affecting petroleum and gas; as the Government's principal channel of communication with the petroleum and gas industries, provides information and services to Government agencies with respect to strategic and economic factors affecting these industries both in the United States and abroad.

Office of Saline Water

1128 U.S. Department of the Interior
18th and C Sts. NW.
Washington, D.C. 20240
Tel: (202) 343-6992

AREAS OF INTEREST: Chemical, physical, engineering, and economic feasibility of saline water conversion; conversion processes, including distillation, membrane processes, crystalization processes, solvent extraction, and removal of ions; scale-formation, heat-transfer, pre-treatment, materials, and corrosion problems relating to conversion problems; design, construction, and operation of pilot and test-bed plants.

HOLDINGS: Books, journals, technical reports, photos, slides, drawings, specifications.

PUBLICATIONS: *Saline Water Conversion Report* (annual); research and development progress reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite use of collection.

Office of Water Resources Research

1129 U.S. Department of the Interior
18th and C Sts. NW.
Washington, D.C. 20240
Tel: (202) 343-5975

AREAS OF INTEREST: Research, training, and information exchange in the water resources field, as authorized by Public Law 88-379 as amended.

PUBLICATIONS: *The Water Resources Research Catalog* (listing and describing current research projects); *Cooperative Water Resources Research and Training--1967 Annual Report*; *Water Resources Thesaurus*; *Research Reports Supported by Office of Water Resources Research* (quarterly cumulative listing); *Selected Water Resources Abstracts*; state-of-the-art reports on selected water problem areas.

INFORMATION SERVICES: Answers inquiries on Office research programs and on procedures for applying for contracts and grants for water resources research under P.L. 88-379 as amended. (Research projects submitted by an approved water resources research institute in each State and Puerto Rico are supported by annual allotments and matching grant funds. Additional funds are authorized under Title II of the Act for research by competent institutions, organizations, public agencies, and individuals.)

The Office manages a Water Resources Scientific Information Center which through the acquisition, storage, selective dissemination, and retrieval of information pertaining to water resources scientific and technical literature is designed to be responsive to the needs of Federal water resources organizations.

Program Support Staff

1130 Office of the Secretary
U.S. Department of the Interior
18th and C Sts. NW.
Washington, D.C. 20240
Tel: (202) 343-4474

AREAS OF INTEREST: Natural resources and conservation programs and projects.

HOLDINGS: Data on Department of Interior programs.

INFORMATION SERVICES: Answers general questions on technical subjects; refers specific questions on technical subjects to other organizations or specialists. (General questions on nontechnical subjects should be addressed to the Department's Director of Information.)

Southeastern Power Administration

1131 U.S. Department of the Interior
Elberton, Ga. 30635
Tel: (404) 283-3261

AREAS OF INTEREST: Transmission and marketing of hydroelectric power; water resources development.

INFORMATION SERVICES: Answers inquiries.

Southwestern Power Administration

1132 U.S. Department of the Interior
P.O. Drawer 1619
Tulsa, Okla. 74101
Tel: (918) 584-7151

AREAS OF INTEREST: Construction and operation of high voltage transmission lines and related facilities which interconnect hydroelectric plants at Federal reservoir projects with each other and with other electric systems, in order to market surplus hydroelectric power generated or to be generated at Federal reservoir projects in Missouri, Arkansas, Louisiana, Oklahoma, eastern part of Texas, and eastern Kansas; participation in comprehensive water resources development in relation to power marketing programs in the Southwest region.

INFORMATION SERVICES: Answers inquiries.

INTERNAL REVENUE SERVICE

see Treasury, Department of the

INTERNATIONAL ASSOCIATION FOR GREAT LAKES RESEARCH

1133 P.O. Box 640
Ann Arbor, Mich. 48107

Location:

1451 Green Rd.
Ann Arbor, Mich.

AREAS OF INTEREST: Research on resources and resource uses in the Great Lakes.

PUBLICATIONS: Conference proceedings.

INFORMATION SERVICES: Answers inquiries; sponsors annual conference on Great Lakes research.

INTERNATIONAL ASSOCIATION FOR IDENTIFICATION

1134 P.O. Box 139
Utica, N.Y. 13503

Location:

7 Parkway Pl.
New Hartford, N.Y.
Tel: (315) 732-2897

AREAS OF INTEREST: The science of identification and investigation; fingerprints; photography; firearms identification; questioned document examination; chemistry and toxicology, etc.

PUBLICATIONS: *Identification News* (monthly); annual roster of members.

INFORMATION SERVICES: Answers inquiries; makes referrals. Services are primarily for law enforcement personnel, but brief inquiries from others are answered as time permits.

INTERNATIONAL ASSOCIATION OF ELECTRICAL INSPECTORS, INC.

1135 201 East Erie St.
Chicago, Ill. 60611
Tel: (312) 337-1658

AREAS OF INTEREST: Electrical safety engineering; application and interpretation of the National Electrical Code; formulation and uniform application of standards for safe installation and use of electricity.

HOLDINGS: 180 books; 200 reports; 120 standards and specifications; 45 periodicals; 275 pamphlets; preprints, reprints, publication lists.

PUBLICATIONS: *IAEI News* (bimonthly).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and bibliographic services without charge; permits onsite use of literature collection.

INTERNATIONAL ASSOCIATION OF FIRE CHIEFS, INC.

1136 232 Madison Ave.
New York, N.Y. 10016
Tel: (212) 683-7287

AREAS OF INTEREST: Fire prevention and protection; fire department administration and operations.

HOLDINGS: Small reference collection of books, periodicals, and reports; bound volumes of annual conference proceedings from 1873.

PUBLICATIONS: *IAFC Newsletter* (monthly); books, reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services for fee; provides free fire prevention pamphlets, career pamphlets, etc.

INTERNATIONAL ASSOCIATION OF ICE CREAM MANUFACTURERS

1137 1105 Barr Bldg.
Washington, D.C. 20006
Tel: (202) 296-4250

AREAS OF INTEREST: Ice cream production; merchandising and accounting; management; economics; statistics; nutrition; history of ice cream production.

HOLDINGS: Newsletters, industry histories.

PUBLICATIONS: *Production Index* (annual); *Summary for Ice Cream Executives*; *History of Ice Cream*; *Your Answers About the Ice Cream Industry*.

INFORMATION SERVICES: Answers inquiries; makes referrals.

INTERNATIONAL ASSOCIATION OF TOOL CRAFTSMEN

1138 3243 37th Ave.
Rock Island, Ill. 61201
Tel: (309) 788-9776

AREAS OF INTEREST: Labor relations in the toolmaking and diemaking industries; apprenticeship; journeymen.

PUBLICATIONS: *The Tool & Die Journal* (monthly); standards, pamphlets.

INFORMATION SERVICES: Answers inquiries

INTERNATIONAL ASSOCIATION ON WATER POLLUTION RESEARCH

1139 c/o Mr. Robert Canham
Secretary, U.S. National Committee, IAWPR
3900 Wisconsin Ave. NW.
Washington, D.C. 20016
Tel: (202) 362-4100

AREAS OF INTEREST: All aspects of water quality management; effects of pollution on aquatic and marine biota; municipal and industrial waste treatment; stream pollution; applied limnology; quantitative ecology and marine water quality, including waste dispersal systems; waste water reclamation and reuse.

PUBLICATIONS: *Water Research* (monthly journal); *Proceedings of International Conferences on Water Pollution Research*.

INFORMATION SERVICES: Answers inquiries; makes referrals; sponsors international conferences on water pollution research and supports national symposia; provides consulting services to international agencies.

INTERNATIONAL ASTRONOMICAL UNION

Minor Planet Center

1140 Cincinnati Observatory
Observatory Place
Cincinnati, Ohio 45208
Tel: (513) 321-5186 (Observatory)
(513) 475-2763 (Computer Center)

AREAS OF INTEREST: Astronomy; minor planets; prediction ephemerides; space trajectories and calculations.

HOLDINGS: Books, journals, reports, microfilm, punched cards, orbital data.

PUBLICATIONS: *Minor Planet Circulars* (irregular).

INFORMATION SERVICES: Provides consulting and duplication services; makes interlibrary loans.

INTERNATIONAL BOUNDARY AND WATER COMMISSION, UNITED STATES AND MEXICO

United States Section

1141 International Boundary and Water Commission, United States and Mexico
P.O. Box 1859
El Paso, Tex. 79950

Location:

818 Southwest Center
300 Main Dr.
El Paso, Tex.
Tel: (915) 532-5476

AREAS OF INTEREST: Administration of international division, allocation, and regulation of the use of waters along the boundary between the United States and Mexico, as agreed upon by treaties; international dams and other hydraulic structures; flood control and regimen of international streams; hydrology; hydrography; investigation of international sewage and industrial waste problems.

PUBLICATIONS: *Water Bulletins* containing statistical information on the Rio Grande, Colorado River, and other international streams.

INFORMATION SERVICES: Answers inquiries; makes referrals.

The Section maintains rain-gage, water-quality, and streamflow stations on the Rio Grande, Tijuana, Santa Cruz, and Colorado Rivers.

INTERNATIONAL BRIDGE, TUNNEL, AND TURNPIKE ASSOCIATION, INC.

1142 1225 Connecticut Ave. NW., Suite 307
Washington, D.C. 20036
Tel: (202) 659-4620

AREAS OF INTEREST: Toll facility operations, including bridges, ferries, tunnels, and turnpikes; traffic, traffic safety, and accidents.

HOLDINGS: Books, journals, reports, data.

PUBLICATIONS: *Tollways* (monthly newsletter); reports, surveys, meeting proceedings.

INFORMATION SERVICES: Permits onsite use of collection.

INTERNATIONAL BRIQUETTING ASSOCIATION

1143 2304 Rainbow St.
Laramie, Wyo. 82071
Tel: (307) 745-5447

AREAS OF INTEREST: Technology of briquetting, agglomerating, and pelletizing of ores, coal, and particulate materials; coal utilization; charcoal briquets; location of coal reserves.

HOLDINGS: Maps, charts, graphs, tables, reports, standards, bibliographies, pamphlets.

PUBLICATIONS: *Proceedings of International Briquetting Association* (biannual); bibliographies; roster of members.

INFORMATION SERVICES: Answers inquiries; makes referrals; performs physical and chemical testing of coal, charcoal, and briquets; provides consulting services for fee.

INTERNATIONAL BUSINESS MACHINES CORP.

Electronics Systems Center

Library and Technical Reports Center

1144 Electronics Systems Center
International Business Machines Corp.
Route 17C
Owego, N.Y. 13827
Tel: (607) 687-2121 Ext. 2541

AREAS OF INTEREST: Electronics, with particular emphasis on avionics, navigation, guidance, displays, and computer technology.

HOLDINGS: A working collection of books, journals, and technical reports.

INFORMATION SERVICES: Makes interlibrary loans; provides nonproprietary information in response to individual requests.

Thomas J. Watson Research Center Library

1145 International Business Machines Corp.
P.O. Box 218
Yorktown Heights, N.Y. 10598

Location:

Taconic and Route 134
Yorktown Heights, N.Y.
Tel: (914) 945-1418

AREAS OF INTEREST: All aspects of electronic data processing research and engineering, with emphasis on computer technology.

HOLDINGS: 30,000 books; 20,000 journals; reports.

INFORMATION SERVICES: Permits onsite reference of nonproprietary material; makes interlibrary loans.

INTERNATIONAL CARGO GEAR BUREAU, INC.

1146 17 Battery Pl.
New York, N.Y. 10004
Tel: (212) 425-2750

AREAS OF INTEREST: A worldwide, nonprofit service organization, the Bureau provides design approval, inspection, and certification of cargo gear and other materials handling equipment, ashore or afloat, in accordance with international, national, and local regulations, with the accreditation or other recognition of related Government authorities establishing and enforcing those regulations.

HOLDINGS: Data compilations, technical reports, standards and specifications, certification records.

PUBLICATIONS: *Reference Manual for Cargo Gear Certification* (*Vol. One*), including "Summary of Standards and Guide for the Certification of Cargo Gear," "Loose Gear Certification Guide," and "-Force Diagram and Calculation Guide for Light Lift Coplaner Derricks (Swinging Boom)"; standards and specifications, technical reports.

INFORMATION SERVICES: Answer inquiries; provides consulting services; prepares analyses and evaluations; provides recognized design approvals and recognized certification services. These services, which are coordinated through the international headquarters office in New York, are performed worldwide through representatives.

INTERNATIONAL CENTER FOR ARID AND SEMI-ARID LAND STUDIES

see Texas Tech University

INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS

1147 50 South Los Robles
Pasadena, Calif. 91101
Tel: (213) 684-1310

AREAS OF INTEREST: Building standards; evaluation of new products and types of construction and building plans for compliance with structural requirements of the Uniform Building Code; training programs for building inspection.

HOLDINGS: Complete sets of American Society for Testing and Materials and American Standards Association reports; 3,000 periodicals; 2,500 newsletters; 1,200 slides; test data and reports.

PUBLICATIONS: *Uniform Building Code* (*Vol. I, Building*; *Vol. II, Mechanical*; *Vol. III, Housing*; *Vol. IV, Dangerous Buildings*; *Vol. V, Signs*; *Vol. VI, Dwelling House Construction*; *Vol. VII, Short Form*; and *Uniform Building Code Standards*); *Building Standards Monthly*; *Research Recommendations* concerning 700 products, fabricators, and quality control agencies; *Modern Building Inspection*; *Training Manual in Field Inspection of Buildings and Structures.*

INFORMATION SERVICES: Answers inquiries; provides consulting services; analyzes test data for evaluation of new products; conducts training programs.

INTERNATIONAL FLAVORS AND FRAGRANCES, INC. RESEARCH LIBRARY

1148 800 Rose Lane
Union Beach, N.J. 07735
Tel: (201) 264-4500

AREAS OF INTEREST: Organic chemistry (synthesis, analysis); perfumery; flavors; essential oils.

HOLDINGS: 3,300 spectral analyses; 3,000 books; 1,200 bound volumes of periodicals; 150 periodical titles; 165 reels of film; 300 slides; 380 volumes of abstracts and indexes; 120 volumes of reviews; 120 volumes of bibliographies; 16 file drawers of evaluated lab records; 17 file drawers of patents; 8 file drawers of manufacturers' catalogs; 4 file drawers of technical reports; pamphlets, reprints, preprints, photocopies, tear sheets, punched cards.

PUBLICATIONS: Quarterly bulletin listing new accessions (for internal distribution only).

INFORMATION SERVICES: Answers inquiries. Material in the collection, except internal reports and documents, is available for loan or photocopying (for brief items) to Special Libraries Association members and for onsite use by others, depending on circumstances. Literature-searching, bibliographic, and translating services may be provided, depending on circumstances.

INTERNATIONAL FOUNDATION FOR TELEMETERING

1149 19730 Ventura Blvd., Suite 6
Woodland Hills, Calif. 91364
Tel: (213) 884-9567

AREAS OF INTEREST: Theory and practice of telemetering and allied arts and sciences; unity, effectiveness of effort, and ethical professional conduct among those professionally concerned with telemetering and the allied arts and sciences.

HOLDINGS: Copies of the ITC/USA proceedings from their inception in 1965.

PUBLICATIONS: *Telemetry Journal* (bimonthly); ITC/USA conference proceedings (annual).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and consulting services; conducts annual fall telemetry conference, alternating between Washington, D.C. and Los Angeles, Calif., at which educational tutorial sessions are conducted.

INTERNATIONAL HARVESTER CO.

Solar Division Library

1150 2200 Pacific Highway
San Diego, Calif. 92107
Tel: (714) 233-8241

AREAS OF INTEREST: Gas turbine design, test, and manufacture; applied research in high-temperature metals and processes.

HOLDINGS: About 4,500 books, 300 journals, and 17,000 reports; maps and charts, miscellaneous items.

PUBLICATIONS: Technical reports, standards and specifications.

INFORMATION SERVICES: Provides reference services; lends some materials in the literature collection.

INTERNATIONAL JOINT COMMISSION--UNITED STATES AND CANADA

1151 1717 H St. NW., Room 203
Washington, D.C. 20440
Tel: (202) 296-2143

AREAS OF INTEREST: Use, pollution, obstruction, and diversion of boundary waters between the United States and Canada; investigations and surveillance of transboundary air pollution between the countries.

HOLDINGS: Joint Letters of Reference dating from 1911, hearings, reports on river basins, and applications for construction to alter the water levels on boundary lakes and rivers.

INFORMATION SERVICES: Answers inquiries; permits onsite use of collection by researchers by special arrangement. Extra copies of recent reports, the rules of procedure of the Commission, and the Treaty of January 11, 1909, between the United States and Great Britain are available on request.

INTERNATIONAL LEAD ZINC RESEARCH ORGANIZATION, INC.

1152 292 Madison Ave.
New York, N.Y. 10017
Tel: (212) 532-2373

AREAS OF INTEREST: Lead and zinc research in technical disciplines of metallurgy, chemistry, electrochemistry, and environmental health; new and existing lead and zinc products; forms of lead and zinc; fabrication processes; treatments and finishes; alloy development; chemicals; corrosion protection.

HOLDINGS: 1,750 books; 160 periodicals; subject file.

PUBLICATIONS: *ILZRO Research Digest* (biannual) in the following 5 parts: Die Cast and Wrought Zinc; Zinc for Corrosion Protection; Zinc Chemistry; Lead Metallurgy; and Lead Chemistry; reprints, abstracts, annual report, other reports.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services to scientists, industrial personnel, librarians, and others with a legitimate need-to-know.

INTERNATIONAL MATERIAL MANAGEMENT SOCIETY

1153 214 B Huron Towers
2200 Fuller Rd.
Ann Arbor, Mich. 48105
Tel: (313) 761-5858

AREAS OF INTEREST: Technical aspects of material handling; bulk and unit handling; warehousing; handling in rail, highway, water, and air transportation; military operations; manufacturing distribution; integrated systems.

INFORMATION SERVICES: Answers brief inquiries.

INTERNATIONAL MOBILE AIR CONDITIONING ASSOCIATION, INC.

1154 6116 North Central Expressway
Dallas, Tex. 75206
Tel: (214) 361-7014

AREAS OF INTEREST: Automotive air conditioning; truck cab air conditioning; recreational vehicle, marine, farm equipment, off-highway equipment, and aircraft air conditioning.

HOLDINGS: Standards and specifications.

INFORMATION SERVICES: Answers inquiries; makes referrals; prepares analyses and evaluations.

INTERNATIONAL NICKEL CO., INC.

1155 67 Wall St.
New York, N.Y. 10005
Tel: (212) 944-1000

AREAS OF INTEREST: Properties, fabrication, and use of nickel, nickel alloys, nickel steels, nickel-containing stainless steels, maraging steels, nickel plating, ductile irons, platinum metals, and nickel chemicals; corrosion, high temperature, and cryogenic data on these and other metallic materials.

HOLDINGS: A collection of published information, a data file, and a technical reference file of unpublished material.

PUBLICATIONS: *Nickel Digest* (quarterly abstract journal); *INCO Nickel Topics* (6 issues a year) describes industrial applications of nickel-containing materials; *International Nickel Magazine* (quarterly). Publications are distributed free.

INFORMATION SERVICES: Provides information on request. Access to or copies of internal or published material may be made available on some subjects.

INTERNATIONAL OCEANOGRAPHIC FOUNDATION

1156 10 Rickenbacker Causeway, Virginia Key
Miami, Fla. 33149
Tel: (305) 361-2186

AREAS OF INTEREST: Marine resources; ocean currents; geology, chemistry, physics, medicine, and engineering concerning the sea; game and food fishes.

HOLDINGS: Books, journals, data.

PUBLICATIONS: *Sea Frontiers* (6 issues a year, containing general articles on all phases of marine science and technology and book reviews); *Sea Secrets* (6 issues a year, information bulletin and question-and-answer series); *Training and Careers in Marine Science*; proceedings.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; sponsors International Game Fish Conference.

INTERNATIONAL ROAD FEDERATION

1157 1023 Washington Bldg.
Washington, D.C. 20005
Tel: (202) 783-6722

AREAS OF INTEREST: Planning, financing, and construction of national and international highway networks; transportation; research and development; regional and world highway meetings; fellowship programs for graduate students at American universities.

HOLDINGS: Technical reports, books, photos, maps, charts, graphs, tables, periodicals, statistics, proceedings.

PUBLICATIONS: *World Highways* (monthly); *Road International* (quarterly); *Highway Expenditures, Road and Motor Vehicle Statistics* (annual); *Principal United States Contractors and Engineers Engaged in Engineering or Construction of Roads, Bridges and Airports Overseas* (semiannual); *1969 World Survey* *of Current Research and Development on Roads and Road Transport, Part I, A Report Covering an Inventory of 54 Countries*; *IRF Directory of World Road Administrators, National Associations, IRF Officers, Directors and Sponsors* (annual); *Road Facts*; other reports and directories; brochure.

INFORMATION SERVICES: The Federation's information services are primarily for its members, but it will answer brief inquiries from others and permit selected onsite reference.

INTERNATIONAL TELEPHONE AND TELEGRAPH CORP.

ITT Defense Communications Division Library

1158 492 River Rd.
Nutley, N.J. 07110
Tel: (201) 284-2097

AREAS OF INTEREST: Electronics; navigation; data processing; microelectronics; switching design; transmission/space design.

HOLDINGS: 10,000 books; 500 journal titles; 15,000 reports.

PUBLICATIONS: Accessions list.

INFORMATION SERVICES: Permits limited onsite reference; lends materials.

INTERNATIONAL UNION OF OPERATING ENGINEERS

1159 1125 17th St. NW.
Washington, D.C. 20036
Tel: (202) 347-8560

AREAS OF INTEREST: Labor and labor-management relations; wages; apprenticeship and skill improvement training; power plants, including self-contained diesel power plants; cranes; hoists; boilers; air conditioning and refrigeration industrial maintenance; industrial and nonoccupational safety; health and welfare plans; pension plans; Old Age and Survivors' Insurance; trends in productivity and building technology; heavy equipment design and operation; legislation (Federal, State, local); industrial uses of radiation and all other nuclear power; water desalinization; education; cryogenic systems and materials; industrial standards; nondestructive testing.

HOLDINGS: Historical information on International Union; 2,000 books; research studies on productivity of heavy equipment; safety material, including raw material; slides, motion pictures.

PUBLICATIONS: *International Operating Engineer* (monthly); record of quadrennial conventions.

INFORMATION SERVICES: Answers brief inquiries; makes referrals.

INTERSTATE COMMERCE COMMISSION

Bureau of Operations

Section of Motor Carriers

1160 Bureau of Operations
Interstate Commerce Commission
12th St. and Constitution Ave. NW.
Washington, D.C. 20423
Tel: (202) 737-9765

AREAS OF INTEREST: All phases of economic regulation of highway transportation.

HOLDINGS: Complete set of Motor Carrier Operating Authorities (over 100,000).

PUBLICATIONS: *Library of Motor Carrier Operating Authorities*; instruction pamphlets concerning extent of regulation and manner of compliance.

INFORMATION SERVICES: Answers inquiries; furnishes interpretations and renders informal opinions on all phases of the economic regulation of interstate highway transportation.

INTERSTATE COMMISSION ON THE POTOMAC RIVER BASIN

1161 Global Bldg., Room 407
1025 Vermont Ave. NW.
Washington, D.C. 20005
Tel: (202) 393-1978

The Commission is composed of representatives of Virginia, West Virginia, Maryland, Pennsylvania, the District of Columbia, and the Federal Government.

AREAS OF INTEREST: Water resources, water supply, water quality, municipal and industrial wastes treatment, mine acid drainage, sedimentation, flood control, and water pollution abatement in the Potomac River Basin.

HOLDINGS: Technical reports, newsletters, pamphlets, display materials, bulletins, motion pictures.

PUBLICATIONS: *Water Quality Sampling Network* (annual, contains technical information on the chemical, physical, and bacteriological characteristics of water samples taken throughout the Potomac Basin); monthly newsletter; technical bulletins on various aspects of water pollution.

INFORMATION SERVICES: Answers inquiries; lends films for group showings; organizes public educational meetings on pollution abatement; permits onsite use of literature collection.

INTERSTATE OIL COMPACT COMMISSION

1162 P.O. Box 53127
Oklahoma City, Okla. 73105

Location:

900 Northeast 23d St.
Oklahoma City, Okla.
Tel: (405) 525-3556

AREAS OF INTEREST: Oil and gas conservation, including conservation activities in various States; engineering, including production methods, conservation practices, and fundamental geology; research in well spacing, underground storage, gas-oil ratio, bottom-hole pressure, and production histories; legal aspects of repressuring and recycling; public lands, including oil and gas development in the wilderness area; regulatory practices, including rules and uniform reporting forms; secondary recovery and pressure maintenance.

HOLDINGS: Books, reports, periodicals, reviews, newsletters, preprints, reprints, bibliographies, pamphlets, studies by Federal agencies, orders from regulatory bodies, maps, charts.

PUBLICATIONS: *Compact Comments* (monthly); *Legal Report* (annual); *Stripper Well Survey* (annual); *Compact Bulletin* (semiannual); *Committee Bulletin* (semiannual); motion picture, directory, special publications.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits use of collection.

INTERSTATE SANITATION COMMISSION

1163 10 Columbus Circle
New York, N.Y. 10019
Tel: (212) 582-0380

AREAS OF INTEREST: Water pollution abatement and control in the New York Metropolitan Area of New Jersey, New York, and Connecticut and certain activities pertaining to air pollution problems among New York, New Jersey, and Connecticut, including coordination and planning activities; tracing sources of pollutants by water and air samplings; continuous monitoring of the Arthur Kill and East River waterways by means of electronic water quality analysis system; polluting effects of sulfur dioxide in the air; interstate air pollution complaints; coordination of alert system; effect of industrial pollution on fish life; planktonic water pollution; sampling treatment plants; water area surveys.

HOLDINGS: 32,000 punched cards; 500 books; 600 maps; 200 photos; 300 slides; reports, standards and specifications, graphic and tabular data, journals, pamphlets, laboratory samples.

PUBLICATIONS: Technical and annual reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference.

INVEX, INC.

1164 P.O. Box 205
North Miami, Fla. 33161

Location:

12715 Northeast 6th Ave.
North Miami, Fla.
Tel: (305) 754-9231

AREAS OF INTEREST: Uses of ozone in sanitary engineering, including production of potable water, treatment of domestic and industrial waste water, and control of water pollution; ozone generators for sanitary engineering applications.

HOLDINGS: Books, periodicals, reports, standards and specifications, reviews, newsletters, reprints, bibliographies, pamphlets, clippings, project records, chemical analyses, data.

PUBLICATIONS: Pamphlets, product brochures.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, bibliographic, and literature-searching services; prepares technical summaries; provides training in the use of ozone and ozone generators; permits onsite use of literature collection.

ION PHYSICS CORP.

Technical Library

1165 Ion Physics Corp.
South Bedford St.
Burlington, Mass. 01803
Tel: (617) 272-2800

AREAS OF INTEREST: Ion propulsion; electrostatic power generation and high voltage insulation; cathode research; dielectrics; electrets; charged colloid production and dynamics; accelerator technology; solar cells; solid state radiation detectors; microcircuitry; neutron radiography; ion sources; sputtering systems; electrostatic generators; vacuum discharges; high voltage applications.

HOLDINGS: 3,000 books; 180 journals; 9,000 reports; data.

INFORMATION SERVICES: Provides reference services for fee; makes interlibrary loans.

IONICS, INC.

1166 65 Grove St.
Watertown, Mass. 02172
Tel: (617) 926-2500

AREAS OF INTEREST: Less common separations techniques; water and waste treatment; desalination; membrane transport processes; electrochemistry.

HOLDINGS: 2,000 books, journals, reports, and reviews.

PUBLICATIONS: Reports, specifications.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, and literature-searching services; makes interlibrary loans. Services that do not require substantial direct cost are free; other services are provided at cost plus fee.

IOWA AERONAUTICS COMMISSION

1167 State House
Des Moines, Iowa 50319
Tel: (515) 285-1551

AREAS OF INTEREST: Aviation and space.

HOLDINGS: 83 motion pictures; 60 pamphlets.

INFORMATION SERVICES: The Commission serves as a clearinghouse for information on aviation and space by collecting material from various sources and, in turn, mailing it free to interested persons, primarily teachers and students in Iowa.

IOWA AGRICULTURE AND HOME ECONOMICS EXPERIMENT STATION

see Iowa State University of Science and Technology

IOWA CONSERVATION COMMISSION

Lands and Waters Division

1168 Iowa Conservation Commission
300 Fourth St.
Des Moines, Iowa, 50319
Tel: (515) 281-5207

AREAS OF INTEREST: Water safety and water recreation development on all natural and artificial lakes and meandering streams, including the Mississippi and Missouri Rivers; water purity and pollution; State parks and preserves, including protection of unique flora and fauna, areas of archaeological or historical significance, and modern and primitive recreational development to meet public needs for year around recreational enjoyment; State forests to demonstrate forest management techniques and recreational facilities, including public hunting for multiple use development.

PUBLICATIONS: *The Conservationist* (monthly).

INFORMATION SERVICES: Answers inquiries from Iowa residents.

IOWA DEPARTMENT OF MINES AND MINERALS

1169 State Mine Inspector
State House
Des Moines, Iowa 50319
Tel: (515) 281-5774

AREAS OF INTEREST: Iowa mines and mineral resources; coal; gypsum; mining regulations and laws.

HOLDINGS: Mine maps (on microforms), photos, slides, graphs, tables.

PUBLICATIONS: *Report of the State Mine Inspector* (biennial); handbooks on mining law.

INFORMATION SERVICES: Answers inquiries; provides information on depleted underground coal areas.

IOWA GEOLOGICAL SURVEY

1170 Geological Survey Bldg.
16 West Jefferson St.
Iowa City, Iowa 52240
Tel: (319) 338-1173

AREAS OF INTEREST: Geologic features and products of Iowa; quantity and quality of surface and ground water, coal, gypsum, sand and gravel, ceramic clay and shale, limestone and dolomite, raw materials for cement manufacturing, ore deposits, and other mineral resources; geological studies of dam sites; geophysical surveys; glacial deposits.

HOLDINGS: 22,000 sets of well samples; rock sample sets. The Survey is the State depository for all geologic data, including logs and well records.

PUBLICATIONS: *Water-Supply Bulletins* relating to Iowa (prepared in cooperation with the U.S. Geological Survey); technical reports, maps. A publications list is available.

INFORMATION SERVICES: Answers inquiries; provides consulting services to municipalities, industry, and governmental agencies; permits onsite reference; provides speakers for science classes and other groups.

IOWA NATURAL RESOURCES COUNCIL

1171 James Grimes Bldg.
Des Moines, Iowa 50319
Tel: (515) 281-5913

AREAS OF INTEREST: Administration of State laws dealing with water rights, flood control, floodway and flood plain construction, flood plain management and zoning, flood insurance, water and related land resources planning, and oil and gas exploration and development.

PUBLICATIONS: Bulletins, biennial report.

INFORMATION SERVICES: Answers inquiries; advises municipalities on flood plain management planning. Information is available on requirements necessary for construction project approval.

IOWA SOUTHERN UTILITIES CO.

1172 P.O. Box 333
Centerville, Iowa 52544

Location:
300 East Sheridan
Centerville, Iowa
Tel: (515) 856-6351

AREAS OF INTEREST: Technical aspects of gas and electric utilities, including methods of operation, construction standards, long range planning, and new approaches; business management techniques, including personnel management, computer systems, supervisory motivation, etc.

HOLDINGS: 300 books; 400 periodicals; 20 volumes of technical reports and papers; 1,600 pamphlets; 1,500 standards and specifications; 500 maps and charts; 300 newsletters; 800 press releases; 30 films; 1,000 clippings; 65 reviews; data.

PUBLICATIONS: Annual report; special area development reports and studies.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides area market studies and confidential industrial location services free.

IOWA STATE SOIL CONSERVATION COMMITTEE

1173 Grimes State Office Bldg.
Des Moines, Iowa 50319
Tel: (515) 281-5851

AREAS OF INTEREST: Soil and water conservation and watershed management in Iowa.

HOLDINGS: Tapes, films, reports, journals, newsletters, pamphlets.

PUBLICATIONS: Newsletter.

INFORMATION SERVICES: Makes referrals; distributes information bulletins on request.

IOWA STATE UNIVERSITY OF SCIENCE AND TECHNOLOGY

Center for Industrial Research and Services (CIRAS)

1174 201 Building E
Iowa State University of Science and Technology
Ames, Iowa 50010

Tel: (515) 294-3420

AREAS OF INTEREST: Physical, biological, engineering, social, and management sciences of interest to Iowa business and industry.

PUBLICATIONS: Newsletter (bimonthly).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and literature-searching services, utilizing the library of the University and Federal sources of information; sponsors extension courses. Services are free except for extension courses and out-of-pocket expenses on reference services.

College of Veterinary Science

Veterinary Diagnostic Laboratory

1175 College of Veterinary Science
Iowa State University of Science and Technology
Ames, Iowa 50010
Tel: (515) 294-1950

AREAS OF INTEREST: Analytical chemistry; heavy metals; organic and inorganic poisons; pesticides; food additives; mycotoxins; toxic plants; therapeutics; agricultural chemicals; veterinary toxicology; diagnostic service involving gross and microscopic pathology, bacteriology, virology, serology, and parasitology for food animals as well as companion animals, including their public health implications.

HOLDINGS: 1,000 books; 50 periodicals; 1,000 reports; computer data on case reports.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting, reference, and duplication services free, except under special contract. Extensive services are provided to veterinarians and the medical profession only.

Engineering Research Institute

1176 Iowa State University of Science and Technology
Ames, Iowa 50010
Tel: (515) 294-2336

AREAS OF INTEREST: Aerospace, including high speed aerodynamics, flight dynamics, magnus rotors, vibration and flutter, trajectory analysis, and nozzle design; biomedical engineering, including biomedical fluid mechanics, visual information processing, simulation of human respiratory malfunction, and differential diagnosis of disease through pattern recognition; ceramic engineering, including electronic ceramic materials, deformation of refractories, polycrystalline ceramics, ceramic and composite materials research, layering phenomena, and colloidal suspensions; chemical engineering, including electrofluidic processing of coal, heat-mass-momentum transport in starches and flours, desulfurization of gypsum, ion exchange and hydrometallurgical processing, nitration of butane, nucleation and growth in a mixed crystal suspension, crystallization, and plasma torch processing of phosphate rock; civil engineering, including specifications for cast-iron soil pipe and fittings, effect of stirrups and bar-spacing on bond strength, effect of wire and fiberglass on concrete, distribution of wheel loads on highway bridges, prestressed deep beams, concrete popouts, X-ray and diffraction analysis of highway materials, drainage patterns, stream quality standards, peripheral feed tanks, empirical prediction of sand filter performance, diatomite filters, disposal of pesticides, asphalt research, and traffic simulator; electrical engineering, including radio astronomy studies, LF propagation, automatic navigation and control, affiliate program in electric power, effect of conductive contaminants on power system components, computation of electric fields, electrical breakdown of gas, character recognition devices and affiliate program of solid state electronics; engineering graphics, including tape-controlled drafting machine; engineering mechanics, including stress analysis and photomechanics, wave propagation, irreversible thermodynamics of continuous media, servo for inertial guidance system, flow studies, and transient waves in viscoelastic media; industrial engineering, including regulation of public utilities and multiproduct scheduling with time and size of run; mechanical engineering, including computer-aided design, stability of a hydraulic poppet valve, experimental gas dynamics, shock tube, turbomachinery components research program, and free-steam turbulence effects on boundary layer development heat transfer; metallurgy, including mixed conduction in ionic crystals and solid state electrochemistry; nuclear engineering, including similitude, reactor fuel elements, creep of lead and lead alloys under intermittent stresses, space dependent kinetics of coupled core nuclear reactors, gas purification for nuclear reactors, simulation of a nuclear reactor cooling system, and pulsed neutron research.

HOLDINGS: Engineering reports, journal article reprints, photos, patents, pamphlets, data, bulletins, visual aids.

PUBLICATIONS: *Iowa State Engineering Research* (biannual); bulletins, engineering reports, brochures, proceedings, annual report.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services for fee; provides research services through contract or grant; makes publications available on an exchange basis to universities or other research facilities.

Facilities include an Engineering Editorial Office, equipment service, a mechanical shop, electronic shop, analytical laboratory, electronic microscope laboratory, IBM 360/65 computer with complete peripheral equipment, and EAT 8800 analog computer system.

Soil and Materials Research Laboratories

1177 Engineering Research Institute
Iowa State University of Science and Technology
Ames, Iowa 50010
Tel: (515) 294-3936 (soils and concrete)
(515) 294-5172 (asphalt)

AREAS OF INTEREST: Soil engineering; highway and foundation engineering; soil and materials testing for engineering purposes; X-ray diffraction analysis; portland cement concrete; asphalt paving materials; chemical soil stabilization.

HOLDINGS: Selected worldwide soil samples; a small collection of books, periodicals, and reports.

PUBLICATIONS: Reports; preprints and reprints of journal articles.

INFORMATION SERVICES: Answers inquiries; makes referrals. Specialized research, testing, and consulting services are performed on a fee basis; for routine tests and analyses, users are referred to commercial laboratories.

Institute for Atomic Research

1178 Ames Laboratory
Iowa State University of Science and Technology
Ames, Iowa 50010
Tel: (515) 294-3836

AREAS OF INTEREST: Chemistry, including physical, inorganic, and analytical chemistry, with particular emphasis on the less familiar materials which are destined to play an important role in atomic energy programs in the future, and studies involving radiation chemistry, surface chemistry, structural chemistry, and reaction kinetics; physics, including investigations, both experimental and theoretical, in high energy physics, nuclear physics, and solid state physics; metallurgy, including research and development studies on metals of interest to the atomic energy program, with particular emphasis on preparing quantities of very pure metals, and basic theoretical and experimental research in solid state metallurgy, particularly at very high temperatures; chemical engineering, including the development of processes for producing materials of immediate and future interest in the atomic energy program, and aimed toward a better understanding of basic transfer mechanisms and chemical process principles; ceramic and mechanical engineering, including studies of the high temperature properties of ceramic materials and techniques for their fabrication, and of molten metal-container interactions involving systems of interest to the nuclear program; mathematics and computer science research in the areas of numerical analysis; applied mathematics, software systems programming, real time command, control, adaptive logic devices and systems, selective retrieval and dissemination of information, management information systems, and research on mathematics and computing problems which originate in other research groups in the Institute; reactor division research involving investigation of the characteristics of heavy water reactors and the development of equipment, instrumentation, and techniques with which to perform such investigations.

HOLDINGS: 200,000 reports; 1,500 theses; 2,000 books.

PUBLICATIONS: Research papers published in scientific journals.

INFORMATION SERVICES: Permits onsite reference only to reports; makes available reprints of published articles on request.

Facilities include the Ames Laboratory of the Atomic Energy Commission, which comprises a $22 million research complex on the campus, and includes a five megawatt research reactor.

Iowa Agriculture and Home Economics Experiment Station

1179 Iowa State University of Science and Technology
Ames, Iowa 50010
Tel: (515) 294-2518

AREAS OF INTEREST: General agriculture; agricultural economics and marketing; agronomy; agricultural engineering; animal science; dairy and poultry science; bacteriology; biochemistry; biophysics;

botany and plant pathology; food technology; sociology; education; entomology; wildlife; forestry; genetics; horticulture; veterinary medicine; statistics.

HOLDINGS: Reports, films, photos, data.

PUBLICATIONS: *Iowa Farm Science* (monthly); reports, bulletins, proceedings, state-of-the-art review, data handbook.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Rare-Earth Information Center

1180 Iowa State University of Science and
Technology
Institute for Atomic Research
Ames, Iowa 50010
Tel: (515) 294-2272

AREAS OF INTEREST: Science and technology of the rare earths, with special emphasis on the physical metallurgy and solid state physics of the rare-earth metals.

HOLDINGS: Microforms, technical reports, journals, theses, other printed material.

PUBLICATIONS: *Rare-Earth Information Center News* (quarterly); reports and bibliographies (irregular).

INFORMATION SERVICES: Answers inquiries (no charge, except for those requiring a large amount of staff time to answer); performs extensive searches and in-depth analyses on cost basis.

Statistical Laboratory

1181 Iowa State University of Science and
Technology
102 Snedecor Hall
Ames, Iowa 50010
Tel: (515) 294-3440

AREAS OF INTEREST: Statistics, statistical numerical analysis and data processing, and sampling of plant sciences, engineering and physical sciences, economics, animal and plant breeding and genetics, animal sciences, and behavioral and social sciences.

HOLDINGS: Books, journals, reports, data.

PUBLICATIONS: Reprint Series; Technical Report Series; *Statistical Laboratory Annual Report*; *Statlab Review* (biannual).

INFORMATION SERVICES: Provides reference and consulting services without charge to research staff and graduate students of the University; provides services to others for fee.

University Library

1182 Iowa State University of Science and
Technology
Ames, Iowa 50010
Tel: (515) 294-1442

AREAS OF INTEREST: Agronomy; animal science; crop science; climatology; dairy science; fisheries and wildlife biology; food technology; forestry; horticulture; plant pathology; poultry science; soil science; water resources; bacteriology; biochemistry and biophysics; botany; cell biology; entomology; genetics; zoology; aerospace engineering; agricultural engineering; biomedical engineering; ceramic engineering; civil engineering; electrical engineering; industrial engineering; mechanical engineering; nuclear engineering; chemistry; computer science; geology; mathematics; physics; veterinary surgery; pharmacology; humanities and social sciences.

HOLDINGS: Approximately 800,000 volumes; 14,000 current periodical and serial subscriptions; 225,000 microforms, including U.S. Atomic Energy Commission microfiche; extensive back files of periodicals in the basic and applied fields of the physical and biological sciences, including those in foreign languages.

INFORMATION SERVICES: Makes interlibrary loans; provides onsite reference service; provides duplication services for fee.

Water Resources Research Institute

1183 Iowa State University of Science and
Technology
Ames, Iowa 50010
Tel: (515) 294-4264

AREAS OF INTEREST: Hydraulics; sanitary engineering; soil physics; geohydrology; limnology; water law; economics.

HOLDINGS: The Institute's holdings are housed and cataloged in the University Library, which has numerous books on water resources.

PUBLICATIONS: *Water Pollution Control and Abatement* (1967, results of a seminar held at Iowa State University); *Agricultural Practices and Water Quality* (1970, results of the Conference Concerning the Role of Agriculture in Clean Water held at Iowa State University, November 18-20, 1969); *Flood Plain Management--Iowa's Experience* (1969, papers presented at the Conference on Flood Plain Management, Sixth Water Resources Design Conference, Iowa State University).

INFORMATION SERVICES: Answers brief inquiries; makes referrals.

ISLANDS RESEARCH FOUNDATION

1184 54 West 40th St., Room 48
New York, N.Y. 10018
Tel: (212) 565-7750 or 524-4277

AREAS OF INTEREST: Islands anywhere in the world (travel, history, indigenous culture, natural resources, suitability for development, latitudes, currents and weather, archaeology, anthropology, indigenous flora and fauna).

HOLDINGS: Files containing information on any island with a name, compiled by name (or names) in alphabetical sequence, with position, classifications (according to areas of interest) and regional maps, cross-references, bibliographies, biographies, and a feature titled "Opportunities."

PUBLICATIONS: Brochure.

INFORMATION SERVICES: Answers inquiries (inquiries in writing are assigned to qualified researchers for reply); makes referrals; provides consulting services.

ISOCHEM RESINS CO.

1185 99 Cook St.
Lincoln, R.I. 02865
Tel: (401) 723-2100

AREAS OF INTEREST: Epoxy resins; silicones; urethanes and foams; missiles and aerospace formulations; resin strippers; disintegrators; cleanup materials for resin work and plasticizers.

HOLDINGS: 200 books; 840 periodical titles; 300 standards and specifications; technical reports, project reports, samples, data, clippings, press releases.

PUBLICATIONS: Annual report.

INFORMATION SERVICES: Answers brief inquiries; provides reference and consulting services on fee basis; permits onsite reference; conducts educational workshops for pharmacists; performs chemical analyses of water.

ISOTOPES INFORMATION CENTER

see Oak Ridge National Laboratory

ITEK CORP. LIBRARY

1186 10 Maguire Rd.
Lexington, Mass. 02173
Tel: (617) 276-2643

AREAS OF INTEREST: Optics; photography, especially aerial reconnaissance; graphic data processing; photogrammetry.

HOLDINGS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides duplication of short articles and lends materials to neighboring libraries on a reciprocal basis.

THE IZAAK WALTON LEAGUE OF AMERICA

1187 1326 Waukegan Rd.
Glenview, Ill. 60025
Tel: (312) 724-3880

AREAS OF INTEREST: Conservation, maintenance, protection, and restoration of soil, air, woods, waters, wildlife, and all other natural resources of the United States.

PUBLICATIONS: *Izaak Walton League Outdoor America* (monthly, available to nonmembers by subscription); *Guidelines to Conservation Education Action*; a number of educational pamphlets.

INFORMATION SERVICES: Answers inquiries.

JACKSON & MORELAND DIVISION

1188 600 Park Square Bldg.
Boston, Mass. 02116
Tel: (617) 482-8100

Jackson & Moreland, a consulting engineering firm, is a division of United Engineers & Constructors Inc.

AREAS OF INTEREST: Engineering and construction.

HOLDINGS: A library of about 20,000 items, including books, bound and unbound periodicals, maps and charts, project records, reports, standards, abstracts, reprints, publication lists, bibliographies, pamphlets, and clippings.

INFORMATION SERVICES: Answers brief inquiries; makes interlibrary loans within reasonable distances.

JAMES W. HOWDEN CO., INC.

1189 P.O. Box 602
Ridgewood, N.J. 07451
Tel: (201) 445-0446

AREAS OF INTEREST: Engineering design and development of conveying systems, particularly dry power feeding mechanisms, waste reclamation process lines, nonwoven bonded fabrics and batting, and automation; photomicrography.

HOLDINGS: Books, reports, maps, charts, photos, slides, graphs, tables, standards and specifications, project records, reviews, reprints, publication lists, bibliographies, periodicals, abstracts, indexes, newsletters, posters and other display materials, pamphlets, data; about 1,000 nonwoven fabrics samples.

PUBLICATIONS: Reports, photos, slides, maps, charts, reviews, data.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services for fee; provides bibliographic, duplication, and literature-searching services; lends some materials; makes some material available for retention.

JET PROPULSION CENTER

see Purdue University

JET PROPULSION LABORATORY LIBRARY

see California Institute of Technology

JOHN CARROLL UNIVERSITY

Seismological Observatory

1190 John Carroll University
North Park and Miramar Ave.
University Heights
Cleveland, Ohio 44118
Tel: (216) 932-3800 Ext. 241

AREAS OF INTEREST: Seismology; solid earth geophysics; elastic wave propagation; attenuation of elastic waves; earth structure; compilation of travel time tables; mathematical and statistical analysis of seismic-parameters; vibration analysis and control; volcanology, including correlation with seismic effects; study of explosive and nonexplosive mechanism.

HOLDINGS: Books, periodicals, graphs, tables, photos, slides; seismograph observations from 1906 to present; seismological bulletins from over 300 observatories located throughout the world.

PUBLICATIONS: Monthly bulletin of seismological data; research papers.

INFORMATION SERVICES: Answers inquiries; makes referrals; makes interlibrary loans; lends records and data to authorized agencies, observatories, and scientists.

Facilities include a seismological observatory with long period and short period instruments, General Electric computer system, photocopying equipment, vibration testing laboratory, related equipment, and fully equipped instrument machine shop.

THE JOHN CRERAR LIBRARY

1191 35 West 33d St.
Chicago, Ill. 60616
Tel: (312) 225-2526

AREAS OF INTEREST: Biology; botany; zoology; physiology; biochemistry; mathematics; chemistry; geology; physics (basic research aspects); cremation; international congresses and expositions; all branches of agriculture having industrial interest, e.g., food processing and preservation, farm machinery and equipment, fertilizers, and insecticides; all aspects of engineering; metallurgy; communications; transportation; medicine, including historical medicine; bacteriology; gynecology; pediatrics; leukemia.

HOLDINGS: Over one million volumes and pamphlets, and current subscriptions to more than 13,000 periodicals and serial publications, devoted exclusively to science, technology, and medicine. The Library has a complete collection of reports from the National Aeronautics and Space Administration, a partial collection of unclassified reports of the U.S. Atomic Energy Commission and the U.S. Department of Defense, and selected reports of other U.S. Government agencies.

PUBLICATIONS: *Leukemia Abstracts* (monthly); *Translations Register-Index* (semimonthly); bibliographies; pamphlets describing the Library's services.

INFORMATION SERVICES: Public reference service is given in the Research Services Division, where readers may make free use of the collections. Designated by the National Library of Medicine as the Midwest Regional Medical Library, Crerar has responsibility for loan and information services to health science personnel in the six-State area of Illinois, Indiana, Iowa, Minnesota, Wisconsin, and North Dakota. Otherwise, volumes are not lent for home use except to members (membership in the

Crerar Library is open to any organization or individual whose interests coincide with the objectives of the Library). The Research Information Service of the Library offers library research services on a reimbursable basis. Literature searches, prior art searches relating to patents, and current awareness literature scanning are done by subject specialists and are issued in the form of abstracts, annotated bibliographies, reports, punched cards, and catalog cards. A limited number of custom translations are prepared on a per word basis. Under a grant from the National Science Foundation, the Library maintains and services a translations center with a collection of more than 150,000 translations of articles contributed by Government agencies, industrial firms, and private organizations. The translations center lends copies and supplies photoduplicates of translations in its collection. Inquiries should be addressed to the National Translations Center, The John Crerar Library. *Translations Register-Index* lists new accessions by subject and contains a computer-produced cumulating citation index to translations available at the National Translations Center and some 30 additional sources. Subject to copyright limitations, the Library will furnish photocopies of materials in its collections (a price list for this service is available).

JOHN F. KENNEDY SPACE CENTER TECHNICAL LIBRARY

see National Aeronautics and Space Administration. Office of Manned Space Flight

JOHN I. THOMPSON AND CO.

1192 1601 Research Blvd.
Rockville, Md. 20850
Tel: (301) 424-1310

AREAS OF INTEREST: Electronic instruments and equipment; design and test of underwater ordnance; oceanography; explosive ordnance handling and disposal; materials; package engineering and design; mathematical statistics; data processing.

HOLDINGS: 2,500 project records; 7,500 technical reports; 6,000 standards and specifications; 4,000 books.

PUBLICATIONS: Maps, charts, technical reports, standards and specifications, reviews, newsletters, pamphlets, posters, data compilations.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference, translating, literature-searching, and consulting services for fee or on contract basis; permits onsite reference by request.

JOHNS HOPKINS UNIVERSITY

Applied Physics Laboratory

Chemical Propulsion Information Agency (CPIA)

1193 Applied Physics Laboratory
The Johns Hopkins University
8621 Georgia Ave.
Silver Spring, Md. 20910
Tel: (301) 589-7700 Ext. 560 or 561

A Department of Defense Information Analysis Center, CPIA is administered by the Naval Air Systems Command (AIR-330) and sponsored jointly by the Navy, Air Force, Army, and National Aeronautics and Space Administration.

AREAS OF INTEREST: Research, development, test, and evaluation of information and data on chemical rockets. (This includes performance calculations of existing or theoretical chemicals, species, and combinations; correlation of flight data and ground test data; chemical synthesis; combustion; formulation of chemicals into solid or liquid propellant systems; physical and ballistic characterization of chemicals and propellants; design of liquid rocket engines and solid rocket motors; static testing of chemical rockets; and integration of chemical rockets in flight vehicles and missiles.)

HOLDINGS: Extensive collections of solid propulsion reports and post-1956 reports on liquid propulsion.

PUBLICATIONS: *Chemical Propulsion Abstracts* (semimonthly, looseleaf, indexed); *Liquid Propellant Manual*; *Liquid Engine Manual*; *Solid Rocket Motor Manual*; *Solid Propellant Manual*; *Bulletins* of the Joint Army-Navy-NASA-Air Force (JANNAF) Propulsion Committee sponsored meetings and symposia which are coordinated by the CPIA; *Chemical Propulsion Newsletter*. The outputs of the Working Groups are recorded in *Working Group Bulletins* and other publications which are initially distributed to the Working Group participants and made available to other CPIA users on an individual request basis. The *Chemical Propulsion Mailing List* is maintained by the CPIA to promote direct exchange of chemical propulsion technical information among selected Government facilities and contractors. It is the basis of many distribution lists for chemical propulsion contract progress reports and the basis for direct, personal, information exchange among leading investigators in the rocket community. *Technology Status Reports* and *State-of-the-Art Reports* are prepared by the CPIA technical staff and consultants, with assistance of Government and industry scientists as necessary. Most publications are at the Confidential level.

INFORMATION SERVICES: Provides consulting services. Visitors are assisted by technical staff members who aid the visitors in obtaining information and data from the files. Services are available to Government agencies and their contractors who are registered with the Defense Documentation Center at least at the Confidential level. Services are provided on cost basis.

Chesapeake Bay Institute

1194 Oceanography Bldg.
The Johns Hopkins University
Charles and 34th Sts.
Baltimore, Md. 21218
Tel: (301) 467-3300 Ext. 511

AREAS OF INTEREST: Oceanography; the chemical, physical, and geological properties of the estuarine environment, particularly that of the Chesapeake Bay.

HOLDINGS: A research library of 2,100 volumes on oceanography and a collection of oceanographic data on punched cards from which printouts can be made.

PUBLICATIONS: Technical articles by staff members are issued in *Collected Reprints*. The Institute also publishes reports and atlases of the properties of the Chesapeake Bay.

INFORMATION SERVICES: Answers inquiries; provides consulting services for fee.

The Institute has a field laboratory at Annapolis, Md., where its survey ships are based.

Department of Geography and Environmental Engineering

1195 The Johns Hopkins University
513 Ames Hall
Baltimore, Md. 21218
Tel: (301) 467-3300 Ext. 387

AREAS OF INTEREST: Sanitary engineering; environmental sciences; geography.

HOLDINGS: Books, periodicals, reports.

PUBLICATIONS: Abstracts, indexes, standards and specifications, bibliographies, critical reviews.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and duplication services; makes interlibrary loans.

S. C. JOHNSON AND SON, INC.

1196 1525 Howe St.
Racine, Wis. 53403
Tel: (414) 632-1611

AREAS OF INTEREST: Chemistry, including colloids, polymers, emulsions, resins, waxes, chemical specialties, pesticides, and properties and uses of natural waxes; physics, including the physics of surfaces, colloids, thin films, surface replication, polymeric configuration, and molecular weights; biology, including entomology, microbiology, and natural products of plant and animal origin.

HOLDINGS: 14,000 books; 3,500 data notebooks; 111,000 feet of 16mm film (100-foot rolls); 550 project records; 3,000 standards; 675 periodical titles; 12 review titles; 6 abstract titles; 10,000 reprints; bibliographies, pamphlets, microfiche.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services; permits onsite reference.

JOHNSTON LABORATORIES, INC.

1197 3 Industry Lane
Cockeysville, Md. 21030
Tel: (301) 666-9500

AREAS OF INTEREST: Physical, radiation, and applied chemistry; radiochemistry; oceanography; electronics; instrumentation.

HOLDINGS: 650 books; 1,650 reports; 78 periodicals.

INFORMATION SERVICES: Makes limited personal and interlibrary loans.

JOINT TECHNICAL ADVISORY COUNCIL (JTAC)

1198 345 East 47th St.
New York, N.Y. 10017
Tel: (212) 752-6800

The Council is sponsored by The Institute of Electrical and Electronics Engineers, Inc. and the Electronic Industries Association.

AREAS OF INTEREST: Information of a technical or engineering nature relating to the radio art, including effective spectrum utilization, radio transmitters and receivers, radio propagation, radio antennas, microwaves, land mobile radio, telecommuncations, space communications, etc.

PUBLICATIONS: Technical reports, annual proceedings.

INFORMATION SERVICES: Provides advisory services to Government bodies and other professional and industrial groups.

JONES AND LAUGHLIN STEEL CORP.

Graham Research Laboratory

Technical Information Service

1199 Graham Research Laboratory
Jones and Laughlin Steel Corp.
900 Agnew Rd.
Pittsburgh, Pa. 15230
Tel: (412) 884-1000

AREAS OF INTEREST: Iron and steel technology; metallurgy; chemistry; instrumentation; electronics; engineering.

HOLDINGS: 9,000 books, including a collection of old and rare books on metallurgy; 500 titles and 5,000 bound volumes of periodicals; 30 abstract titles; 2,300 reports; 110 rolls of microfilm; 550 standards and specifications; 3,000 project records; 100 reviews; 5 newsletter titles; 12,000 preprints and reprints; 550 bibliographies; 5,400 pamphlets; 20 publication lists; patents, press releases, data.

PUBLICATIONS: Bulletin (weekly); accessions list (monthly).

INFORMATION SERVICES: Answers inquiries; makes referrals; makes interlibrary loans; permits onsite reference.

JUSTICE, DEPARTMENT OF

Land and Natural Resources Division

Water Resources Unit

1200 Land and Natural Resources Division
U.S. Department of Justice
Constitution Ave. and 10th St. NW.
Washington, D.C. 20530
Tel: (202) 737-8200 Ext. 2705

AREAS OF INTEREST: Litigation involving water rights; State and Federal water laws; water pollution abatement enforcement; river boundary disputes; reclamation litigation; water diversion; water rights on Indian reservations.

HOLDINGS: Literature collection on water law and Federal litigation.

INFORMATION SERVICES: Advises and consults with Federal Government agencies involved in real or potential litigation concerning water rights; permits onsite use of collection. The Unit does not provide legal advice to the general public.

KAISER ALUMINUM AND CHEMICAL CORP.

Technical Information Center

1201 Kaiser Aluminum and Chemical Corp.
Pleasanton, Calif. 94566
Tel: (415) 846-1122

AREAS OF INTEREST: Aluminum technology; refractories; special aluminas; nickel technology; specialty metals; polyurethanes; aluminum chemicals; fluorocarbons.

HOLDINGS: 15,000 books; 600 periodicals; 25,000 reports.

PUBLICATIONS: Accessions list; current awareness bulletin.

INFORMATION SERVICES: Answers inquiries; provides reference services; makes interlibrary loans. Services are available to Government agencies, industry, and students only.

KANSAS AGRICULTURAL EXPERIMENT STATION

see Kansas State University

KANSAS CITY PUBLIC LIBRARY

Business and Technical Department

1202 Kansas City Public Library
311 East 12th St.
Kansas City, Mo. 64106
Tel: (816) 221-1717

AREAS OF INTEREST: Anthropology; archeology; astronomy; biology; botany; chemistry; geology; mathematics; physics; zoology; agriculture; electronics; engineering; medicine; building; business; economics; technology; applied science; pure science; mechanic trades; finance; insurance; labor; real estate; transportation; trade; evolution; paleontology; health, home economics; manufacturing.

HOLDINGS: 50,000 books; 50,000 maps and charts, 500 journals; 1,300 bibliographies; 550 volumes of abstracts and indexes; 14 reels of microforms (patents); 70 file boxes of standards and specifications; 35 file cabinets of pamphlets.

PUBLICATIONS: Newsletters, bibliographies.

INFORMATION SERVICES: Answers inquiries; provides literature-searching and advisory services; makes referrals; permits onsite reference; lends materials.

KANSAS DEPARTMENT OF HEALTH

Environmental Health Services

1203 Kansas Department of Health
State Office Bldg.
Topeka, Kans. 66603
Tel: (913) 235-0011 Ext. 757

AREAS OF INTEREST: Environmental health; public water supplies; water quality; water pollution control.

PUBLICATIONS: River basin studies (some are distributed free, some for a nominal charge).

INFORMATION SERVICES: Answers inquiries.

KANSAS GEOLOGICAL SURVEY

1204 University of Kansas
Lawrence, Kans. 66044
Tel: (913) 864-3101

AREAS OF INTEREST: Geology, including water, gas, and oil resources, particularly in Kansas; mineral product development and econometric studies; computer applications; pollution; environmental geology; mapping; chemistry.

HOLDINGS: Reports, data, chemical analyses of ground water, minerals, rocks, computer programs. Oil well samples are maintained at the Well Sample Library, 4150 Monroe St., Wichita, Kans. 67209, tel: (316) 942-2774.

PUBLICATIONS: Geologic maps, computer programs, and technical reports on county areas and on larger regions in three series: *Bulletins*, *Special Distribution Publications*, and *Computer Contribution Services*.

INFORMATION SERVICES: Provides reference services, interpretation of technical data, and limited analytical chemical services free to persons within the State.

KANSAS INDUSTRIAL EXTENSION SERVICE

1205 125 Seaton Hall
Kansas State University
Manhattan, Kans. 66502
Tel: (913) 532-6173

AREAS OF INTEREST: Transfer of scientific and technical information to industries in Kansas; continuing education in science and technology; technical assistance to industry.

PUBLICATIONS: *Kansas Industrial Extension Bulletins* (periodic "how-to-do-it" booklets); *Tri-Pointer Newsletter*; annual report.

INFORMATION SERVICES: Answers technical inquiries; provides reference and bibliographic services; makes referrals; makes field visits; makes available to Kansas business and industry the results of all Federal research and development, including a wide variety of publications, reports, documents, and computer surveys; administers program of continuing education for engineers and manufacturing employees.

KANSAS SOIL CONSERVATION COMMITTEE

1206 State Office Bldg., Room 1252W
Topeka, Kans. 66612
Tel: (913) 296-3600

AREAS OF INTEREST: Administration of soil conservation and watershed districts in the State; dams; reservoirs; waterways; recreation facilities; land treatment projects.

INFORMATION SERVICES: Answers inquiries; makes referrals.

KANSAS STATE UNIVERSITY

Computing Center

1207 Kansas State University
Manhattan, Kans. 66502
Tel: (913) 532-6121

AREAS OF INTEREST: Computers; computer programming; data processing; information storage and retrieval; time-sharing; computer research and education.

HOLDINGS: 10 million punched cards; 400 rolls of magnetic tapes; 16 disk packs; books, periodicals.

INFORMATION SERVICES: Answers inquiries; provides consulting services; provides computer services in education, research, and other nonprofit functions (commercial projects are not solicited).

Facilities include an IBM 360/50 computer.

Engineering Experiment Station

1208 Kansas State University
Seaton Hall
Manhattan, Kans. 66502
Tel: (913) 539-2211

AREAS OF INTEREST: Engineering and architecture, including applied mechanics and agricultural, chemical, civil, mechanical, industrial, nuclear, and electrical engineering.

HOLDINGS: Reports, journals, data.

PUBLICATIONS: *Research Activities* (annual, available free on request).

INFORMATION SERVICES: Answers technical inquiries; provides consulting services on a special basis, sometimes free.

Kansas Agricultural Experiment Station

1209 Kansas State University
Manhattan, Kans. 66502
Tel: (913) 532-6531

AREAS OF INTEREST: Agricultural economics; agricultural engineering; agricultural processing, utilization, and marketing; agronomy; animal husbandry; biochemistry; dairy science; entomology; flour and feed; foreign agriculture; horticulture; poultry science; chemistry; chemical engineering; home economics; veterinary medicine; biology, including botany, bacteriology, and zoology; plant pathology; sociology; geology.

PUBLICATIONS: Technical reports and bulletins.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

Branch stations are located at Hays, Garden City, Mound Valley, Colby, and Tribune, Kans.

Kansas Water Resources Research Institute

1210 Waters Hall, Room 146D
Kansas State University
Manhattan, Kans. 66502
Tel: (913) 532-6787

AREAS OF INTEREST: Water quality; climatology; evapotranspiration, including energy budget studies; engineering hydrology; hydraulics; fluid dynamics; stream and lake regimen; water economics; water microbiology; water pollution, including pollution from animal feedlots; agricultural, municipal, industrial, and recreational water management.

HOLDINGS: The Institute has access to the libraries of Kansas State University and the University of Kansas, and the files of the State Geologic Survey and State Climatologist.

PUBLICATIONS: Project reports, annual report, articles in professional water resources literature.

INFORMATION SERVICES: Answers inquiries; makes referrals to State agricultural and industrial specialists; disseminates project reports and reprints of technical publications.

Facilities available on a cooperative basis include 18 Branch Experiment Stations or Fields, a center for regional studies, an ARS-USDA Erosion Laboratory, and hydrology, fluid mechanics, plant breeding, plant physiology, pesticidal residue, and environmental health laboratories. Water resources research can be performed in any appropriate department at either Kansas State University or the University of Kansas.

University Libraries

1211 Kansas State University
Manhattan, Kans. 66502
Tel: (913) 532-6271

The University Libraries consist of the main library and four branch libraries: Architecture, Chemistry, Physics, and Veterinary Medicine.

AREAS OF INTEREST: Chemistry, including inorganic, organic, biochemistry, cereal, physical, and radio chemistry; physics, including astronomy, astrophysics, atomic physics, meteorology, nuclear physics, radiology, and spectroscopy; engineering, including aerodynamics, agricultural, applied mechanics, chemical, civil, industrial, mechanical, nuclear, and environmental engineering; home economics, including foods and nutrition, textiles, and institutional management; grain technology and flour milling industries; mathematics; statistics and computer science; veterinary medicine, including pathology, physiology, and surgery; architecture, including engineering, history, and city planning; geology, geochemistry, mineralogy, petrology, and petroleum geology.

HOLDINGS: Books, serials, and reports, including microforms, supporting the academic and research programs of the University; depository collections of Atomic Energy Commission and other U.S. Government publications, International Atomic Energy Agency publications, and Kansas Government publications. Special collections include Linnaeus, cook book, and poultry science.

INFORMATION SERVICES: Makes interlibrary loans.

KANSAS WATER POLLUTION CONTROL ASSOCIATION

1212 Mr. Ray Golly, Secretary
Kansas Water Pollution Control Association
c/o Smith & Loveless
96th and Old 50 Highway
Lenexa, Kans. 66215
Tel: (913) 888-5201

AREAS OF INTEREST: Water pollution control; waste water treatment plants, including management and operation of such plants and operator certification and training.

INFORMATION SERVICES: Answers inquiries.

KANSAS WATER RESOURCES BOARD

1213 State Office Bldg., Room 1134-S
Topeka, Kans. 66612
Tel: (913) 296-3185

AREAS OF INTEREST: Water resources; ground-water and surface-water hydrology; surface-water flow; inorganic and organic constituents of water; ground-water and surface-water use and rates of increase; ground-water recharge; reservoirs and distribution systems; hydrometeorology; population changes and economic factors as related to water resources planning; financial assistance and participation in water projects.

PUBLICATIONS: *State Water Plan Study Series: Part A* (12-volume inventory of water availability and use in Kansas); *Technical Report Series* (prepared in cooperation with the U.S. Geological Survey, dealing with streamflow characteristics in Kansas); *Bulletins* (13-volume series of State-prepared special studies ranging from water law to sedimentation); four *Floodplain Investigations Report* (prepared in cooperation with the U.S. Corps of Engineers); *Newsletter* (bimonthly); miscellaneous reports. Copies of publications and a publications list are available without charge.

INFORMATION SERVICES: Answers inquiries on Kansas water resources; makes referrals.

KARL M. FOX CONSULTING AND TECHNICAL LIBRARY SERVICE

1214 300 Yale Ave.
Swarthmore, Pa. 19081
Tel: (215) 543-2801

Branch Office:

730 Wellesley Ave.
Akron, Ohio 44303

AREAS OF INTEREST: Latex and rubber compounding and fabrication (tires and adhesives); plastics fabrication (film, sheetings, foam); paper and textile coatings, impregnating, and laminating.

HOLDINGS: 500 technical reports; 100 abstract and trade journals; books, periodicals, data, industry technical bulletins, patents; special fiels on Food and Drug Administration regulations for chemical control in food, drugs, and cosmetics; NASA documents on technology utilization; ASTM standards and specifications.

PUBLICATIONS: *Research Intelligence Summary* (occasional); state-of-the-art reviews (available on request).

INFORMATION SERVICES: Answers inquiries; provides bibliographic, reference, and literature-searching services; provides duplication services at cost; provides consulting services for fee; permits onsite reference.

KENNECOTT PAPER CORP.

Ledgemont Laboratory Library

1215 Kennecott Paper Corp.
128 Spring St.
Lexington, Mass. 02173
Tel: (617) 862-8268

AREAS OF INTEREST: Metallurgy; physics, particularly superconductivity, solid state, sonics, and magnetism; inorganic and metallurgical chemistry; mathematics (theoretical, oriented toward physics).

HOLDINGS: 3,500 books; 3,500 journals; reports, patents, films, photos, data.

PUBLICATIONS: *The Library Bulletin*, *Ledgemont Laboratory* (monthly), containing abstracts.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite reference by request.

KENT STATE UNIVERSITY

Liquid Crystal Institute

1216 Kent State University
Kent, Ohio 44240
Tel: (216) 672-2654

AREAS OF INTEREST: Liquid crystals, including their structure and chemical and physical properties; synthesis of liquid crystals.

HOLDINGS: 1,000 abstracts of periodical titles on the subject of liquid crystals.

INFORMATION SERVICES: Answers brief inquiries free; provides consulting services for fee.

University Library

1217 Kent State University
Kent, Ohio 44240
Tel: (216) 672-2697

AREAS OF INTEREST: Mathematics, including topology, partial differential equations, probability, and statistics; physics, including plasma, solid state (lasers, masers, semiconductors), and spectroscopy; geology, including glacial, sedimentology, mineralogy, hydrogeology, geomorphology, economic geology, paleontology, and petrology; chemistry, including crystallography, enzymology, quantum, polymers, and nuclear magnetic resonance; geography, including cartography; industrial arts, including metallurgy.

HOLDINGS: The Library's holdings consist of about 700,000 books, 6,000 periodical titles, and 120,000 documents, approximately one-fourth of which are related to the physical sciences. In addition, the Map Library has about 115,000 maps and 1,100 well logs.

PUBLICATIONS: Theses and dissertations.

INFORMATION SERVICES: Provides reference services; provides duplication services for fee; makes interlibrary loans; makes referrals through the University's Office of Referral Service Network.

Urban Studies Library

1218 Lowry Hall, Room 252
Kent State University
Kent, Ohio 44240
Tel: (216) 672-2002 or 672-2003

AREAS OF INTEREST: Urban planning and renewal; social, political, and economic problems of metropolitan areas, with special emphasis on Northeastern Ohio; geography; history; human environment; information systems.

HOLDINGS: Books for basic and applied research; 180 periodicals and professional journals; 1,000 reports; bibliographies, pamphlets, maps; an automatic Urban and Regional Bibliographical Information System (URBIS) containing approximately 13,000 abstracts.

PUBLICATIONS: The following publications are those of the Center for Urban Regionalism, which the Library serves: *Ohio Social Statistics: 1980 Population and Employment Estimates for Northeast Ohio* (1969); *Urban Disarmament. Summary and Notes of an Exploratory Conference* (1969); *A Comparison of Regional Airport Sites in Northeast Ohio* (1970); *Urban Thesaurus: A Vocabulary for Indexing and Retrieving Urban Literature* (1968); *Urban and Regional Information Systems for Social Programs* (1968); *Urban and Regional Information Systems: Federal Activities and Specialized Systems* (1969); *Urban and Regional Information Systems: Service Systems for Cities* (1970); *Policies for Metropolitan Development* (papers presented at the Second Annual Conference on Urban Regionalism, 1966); *Regional American Assembly State Legislatures in American Politics* (Indiana, Michigan, Ohio, 1966); *Community Growth and Fiscal Policy: Background Studies*.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, literature-searching, abstracting, and duplication services; makes referrals; makes interlibrary loans; permits onsite use of collection. The research staff of the Center for Urban Regionalism has priority on all materials. Information from the automatic retrieval system is provided free to Center and other Kent State University personnel and for a fee to others.

KENTUCKY AGRICULTURAL EXPERIMENT STATION

see University of Kentucky

KENTUCKY DEPARTMENT OF HEALTH

Division of Environmental Health

1219 Kentucky Department of Health
275 East Main St.
Frankfort, Ky. 40601
Tel: (502) 564-3770 or 564-3771

AREAS OF INTEREST: Environmental health in Kentucky, including air and water pollution control and sanitary engineering; approval of plans and specifications for public water supply systems, fluoridation installations, and public swimming pools.

HOLDINGS: Books, motion pictures, photos, slides, maps, project records, reports, journals, abstracts, pamphlets, reprints.

PUBLICATIONS: *Public Water Supply and Fluoridation Regulations*; *Public Swimming Pool Regulations*.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

KENTUCKY DEPARTMENT OF HIGHWAYS

1220 State Office Bldg.
Frankfort, Ky. 40601
Tel: (502) 564-4890

AREAS OF INTEREST: Road construction and maintenance.

HOLDINGS: Manuals.

PUBLICATIONS: Specifications, reports, books.

INFORMATION SERVICES: Answers inquiries; permits onsite use of collection.

KENTUCKY DEPARTMENT OF MINES AND MINERALS

Coal and Clay Mining Division

1221 Kentucky Department of Mines and Minerals
P.O. Box 680
Lexington, Ky. 40501

Location:

120 Graham Ave.
Lexington, Ky.
Tel: (606) 254-0367

AREAS OF INTEREST: Name, production, type, and location of coal and clay mines; safe and correct methods of mining.

HOLDINGS: 25,000 reports; data.

PUBLICATIONS: *Safety Bulletin* (monthly); annual report.

INFORMATION SERVICES: Answers inquiries; provides consulting services; provides duplication services for fee; makes referrals; permits onsite reference.

Oil and Gas Division

1222 Kentucky Department of Mines and Minerals
P.O. Box 680
Lexington, Ky. 40501

Location:

120 Graham Ave.
Lexington, Ky.
Tel: (606) 254-0367

AREAS OF INTEREST: Locations, elevations, and all legal documents required to be filed for all wells drilled for oil and gas purposes.

HOLDINGS: 50,000 reports.

PUBLICATIONS: *Weekly List of Permits Issued.*

INFORMATION SERVICES: Answers inquiries; provides consulting services; provides duplication services for fee; makes referrals; permits onsite reference.

KENTUCKY DEPARTMENT OF MOTOR TRANSPORTATION

1223 New State Office Bldg., 4th Floor
Frankfort, Ky. 40601
Tel: (502) 564-4510

AREAS OF INTEREST: Motor transportation companies by name, commodities transported, parties served, points authorized to serve, restrictions, rates, and other information regarding service rendered by motor carriers; motor carrier financial data.

HOLDINGS: Reports, data.

PUBLICATIONS: Directories, reports.

INFORMATION SERVICES: Answers inquiries; provides reference services.

KENTUCKY DEPARTMENT OF NATURAL RESOURCES

Division of Soil and Water Conservation

1224 Kentucky Department of Natural Resources
Capitol Annex, Room 348

Frankfort, Ky. 40601
Tel: (502) 564-3980

AREAS OF INTEREST: Water and soil conservation; watershed development, including the organization and administration of watershed Conservancy Districts organized under Kentucky Revised Statutes; municipal and recreational uses of water in flood prevention structures or dams constructed in the watersheds; erosion control; control of runoff and sedimentation; legislation affecting soil and water conservation; improvement of Kentucky's waterways.

HOLDINGS: Approximately 5,000 photographs, 750 slides, 50 motion pictures, and various pamphlets, booklets, posters, and display materials.

PUBLICATIONS: Two pamphlets, *Soil and Water Resources in Kentucky* and *Kentucky's Watersheds Developed Through Teamwork, Local-State-Federal*, are available on request.

INFORMATION SERVICES: Makes referrals; disseminates educational and promotional materials within the State; distributes a film list to schools, organizations, and individuals; arranges displays at State and local fairs and schools; conducts programs for civic organizations, schools, and meetings.

Division of Water

1225 Kentucky Department of Natural Resources
Capitol Annex Bldg.
Frankfort, Ky. 40601
Tel: (502) 564-3980

AREAS OF INTEREST: Major flood control dams, in cooperation with the Federal Government; small dams to provide flood control and water supply; engineering techniques of converting highway fills into small dams; water requirements and projections; water supply for municipal and industrial use; methods of maintaining sufficient streamflow to prevent water shortages during droughts.

HOLDINGS: Periodicals, reports.

PUBLICATIONS: Directories, standards and specifications, reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

KENTUCKY GEOLOGICAL SURVEY

see University of Kentucky

KENTUCKY WATER POLLUTION CONTROL COMMISSION

1226 275 East Main St.
Frankfort, Ky. 40601
Tel: (502) 564-3410

AREAS OF INTEREST: Plans and specifications for water pollution control facilities in Kentucky; water quality data.

HOLDINGS: A collection of data compilations, films, photos, project records, slides, standards and specifications, books, journals, technical reports, bibliographies, and other published material.

PUBLICATIONS: Standards and regulations governing water pollution control; monthly report of water quality data.

INFORMATION SERVICES: Answers technical inquiries; provides advisory services; makes referrals; lends films.

KERR-MCGEE CORP.

Whittier Research Laboratory

Technical Information Center

1227 Whittier Research Laboratory
Kerr-McGee Corp.
12519 East Washington Blvd.
Whittier, Calif. 90602
Tel: (213) 723-4851

AREAS OF INTEREST: Chemistry; boron; sodium; potassium; bromine; lithium; thorium; rare earth compounds; chlorates; perchlorates; manganese; manganese dioxide; titanium dioxide; chlorinated insecticides; organic phosphates.

HOLDINGS: 4,000 books; 250 periodical titles; 140 vertical file drawers of reports, patents, and pamphlets.

PUBLICATIONS: Various specialized publications for internal use only.

INFORMATION SERVICES: Makes interlibrary loans.

KITT PEAK NATIONAL OBSERVATORY LIBRARY

1228 P.O. Box 4130
Tucson, Ariz. 85717

Location:

950 North Cherry Ave.
Tucson, Ariz.
Tel: (602) 327-5511

AREAS OF INTEREST: Astronomy (optical and planetary studies); physics and geophysics; engineering; mathematics.

HOLDINGS: 6,000 books; 14,000 periodicals; 11,000 photos; 3,300 maps and charts; 1,250 tapes; 3,500 preprints and reprints; 450 clippings; data.

PUBLICATIONS: *Contributions from the Kitt Peak National Observatory and Cerro Tololo Interamerican Observatory* (irregular); reprints.

INFORMATION SERVICES: Answers inquiries; makes referrals; makes interlibrary loans; permits onsite reference.

KLIPSCH AND ASSOCIATES, INC.

1229 P.O. Box 280 (Oakhaven)
Hope, Ark. 71801
Tel: (501) 777-6751

AREAS OF INTEREST: Sound; audio; stereo; acoustics; loudspeaker design and construction; high fidelity speakers; crossover networks.

HOLDINGS: 880 books; 20,000 reports; 4,200 project records; 3,700 periodicals; 14,000 graphs and tables; 14,000 maps and charts; 13,000 preprints and reprints; 140 pamphlets; 1,400 photos; 15,000 slides; 700 clippings and tear sheets; 6,000 tapes; 290 devices (acoustical testing apparatus); 120 samples (loudspeakers); data.

PUBLICATIONS: *Sound Industry Directory.*

INFORMATION SERVICES: Answers inquiries; provides consulting services for fee; permits onsite reference.

KNOWLEDGE AVAILABILITY SYSTEMS CENTER

see University of Pittsburgh

KNOXVILLE AND KNOX COUNTY PUBLIC LIBRARY

Technical Information Center

1230 Lawson McGhee Library
500 Church Ave.
Knoxville, Tenn. 37902
Tel: (615) 523-0781

AREAS OF INTEREST: Science and technology; business.

HOLDINGS: Periodicals, business and technical indexes, newsletters, publication lists, bibliographies, pamphlets, microfilm, picture file.

PUBLICATIONS: *TIC-BITS* (monthly, for the business and industrial community); book lists (irregular).

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides reference, bibliographic, and duplication services; makes interlibrary loans.

LADD OBSERVATORY

see Brown University

LAKE CARRIERS' ASSOCIATION

1231 305 Rockefeller Bldg.
Cleveland, Ohio 44113
Tel: (216) 621-1107

AREAS OF INTEREST: Great Lakes transportation by bulk cargo ships.

HOLDINGS: Data compilations, books.

PUBLICATIONS: *The Bulletin* (bimonthly, April through November); *Great Lakes Shipping--The Story of the Lakes Vessel Industry* (revised periodically); conference proceedings, data handbooks.

INFORMATION SERVICES: Provides reference and consulting services; provides information on water levels in the Great Lakes and regulations governing overboard discharge of sewage from ships.

LAMAR STATE COLLEGE OF TECHNOLOGY

Lamar Technical Information Center

1232 Box 10021
Lamar Tech Station
Beaumont, Tex. 77705
Tel: (713) 838-6671 Ext. 550

AREAS OF INTEREST: Chemistry; geology; mathematics; physics; engineering, including chemical, petroleum, civil, electrical, industrial, and mechanical engineering; biological sciences.

HOLDINGS: 46,000 books, bound volumes of periodicals, and rolls of periodicals on microfilm; 950 current periodical subscriptions; 5,000 reports; extensive holdings in documents for the last 14 years;

Texas State geological survey and U.S. Geological Survey publications.

PUBLICATIONS: *Lamar Engineer* (quarterly, student publication); bibliographies of faculty research (triennial).

INFORMATION SERVICES: Answers inquiries; makes referrals; lends materials to responsible persons; provides consulting, reference, literature-searching, abstracting, indexing, and duplication services. Services are provided and materials are loaned to patrons in the area who are not enrolled in classes, as well as to business, industry, and commerce, at cost.

Facilities include Xerox and keypunch machines, computer printout service for periodical holdings, teletype, electric coin-operated typewriters, microcard readers, and a microfilm reader-printer. The Center has membership in two networks: Regional Information and Communication Exchange, which makes the collections and services of 16 college and university libraries along the Gulf Coast from Lake Charles to Brownsville, Texas, available to Lamar patrons, and Texas Information Exchange, which places the services and collections of 20 additional Texas State supported four-year college and university libraries within teletype-range of Lamar patrons.

LANGLEY RESEARCH CENTER TECHNICAL LIBRARY

see National Aeronautics and Space Administration. Office of Advanced Research and Technology

LAUNDRY AND CLEANERS ALLIED TRADES ASSOCIATION

1233 1180 Raymond Blvd.
Newark, N.J. 07102
Tel: (201) 642-4964

AREAS OF INTEREST: Commercial laundering and cleaning equipment; industry statistics; safe handling of perchlorethylene drycleaning solvent.

PUBLICATIONS: *The Safe Handling of Perchlorethylene Drycleaning Solvent* (technical data handbook).

INFORMATION SERVICES: Answers inquiries from public health officials.

LAW ENFORCEMENT SCIENCE AND TECHNOLOGY CENTER

see IIT Research Institute

LAW ENGINEERING TESTING CO.

1234 396 Plasters Ave. NE.
Atlanta, Ga. 30324
Tel: (404) 873-2811

Branch Offices:

3608 Seventh Court South
Birmingham, Ala. 35222
Tel: (205) 252-9901

3901 Carmichael Ave.
Jacksonville, Fla. 32206
Tel: (904) 359-3444

1650 Acme St.
Orlando, Fla. 32805
Tel: (305) 241-5683

4619 West Curtis St.
Tampa, Fla. 33614
Tel: (813) 872-7967

412 Plasters Ave. NE.
Atlanta, Ga. 30324
Tel: (404) 873-4761

4560 Old Pineville Rd.
Charlotte, N.C. 28209
Tel: (704) 523-2022

3063 Medlin Dr.
Raleigh, N.C. 27607
Tel: (919) 787-7101

AREAS OF INTEREST: Civil and chemical engineering; soil and rock mechanics; foundation engineering; geology; geophysics; topography studies; petrography; stratigraphy; ground water studies; earth dam design; concrete and construction materials technology; structural engineering; industrial radiography; metals inspection; steel and pipe inspections; welding inspection; magnetic particle and ultrasonic inspection of metals; development of concrete aggregate and testing of concrete properties; expert testimony; product testing; environmental testing; failure investigations.

HOLDINGS: Unpublished subsurface, soil, and rock mechanics information; engineering reports on thousands of foundation investigations; thousands of color slides of projects and foundation failures; geologic and soils samples and specimens; books, standards and specifications, project records, periodicals, bibliographies, directories, pamphlets, photos, data sheets, magnetic tape, devices (seismographs, etc.).

PUBLICATIONS: Annual report, brochure, catalogs, proceedings, directories.

INFORMATION SERVICES: Answers inquiries; provides consulting services on fee basis; provides literature-searching services; permits onsite use of collection.

Facilities include field and permanent fully-equipped testing laboratories.

LAWRENCE RADIATION LABORATORY

see University of California, Berkeley

LEAD INDUSTRIES ASSOCIATION, INC.

1235 292 Madison Ave.
New York, N.Y. 10017
Tel: (212) 679-6020

AREAS OF INTEREST: Lead mining, smelting, refining, and fabricating; lead products and their use; improvement of the welfare of those engaged in lead industries or in the use of lead products; lead toxicology.

PUBLICATIONS: *Lead* (quarterly magazine); abstracts and indexes.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, literature-searching, and abstracting and indexing services. Extensive services are provided to Association members only.

LEHIGH UNIVERSITY

Center for Marine and Environmental Studies

1236 Lehigh University
Bethlehem, Pa. 18015
Tel: (215) 867-5071 Ext. 453

AREAS OF INTEREST: Marine sciences; ocean engineering; environmental studies.

HOLDINGS: Research reports, research data.

PUBLICATIONS: Articles in scientific and engineering journals.

INFORMATION SERVICES: Answers inquiries; makes referrals.

LEWIS RESEARCH CENTER LIBRARY

see National Aeronautics and Space Administration. Office of Advanced Research and Technology

LIBRARY BINDING INSTITUTE

1237 160 State St.
Boston, Mass. 02109
Tel: (617) 227-9610

AREAS OF INTEREST: Book preservation; rebinding of used and prebinding of new library volumes; initial hardcover binding of periodicals for libraries; library binding materials.

PUBLICATIONS: *The Library Binder* (twice a year, in May and December); brochure, handbook, specifications, reports.

INFORMATION SERVICES: Answers inquiries concerning maintenance of library volumes; distributes free brochures, posters, and literature (a charge is made for quantity orders); lends slides and films.

LIBRARY OF CONGRESS

Geography and Map Division

1238 Library of Congress
10 First St. SE.
Washington, D.C. 20540

Location:

845 South Pickett St.
Alexandria, Va.
Tel: (703) 370-1335

AREAS OF INTEREST: Maps, charts, atlases, globes, models, and other cartographic forms; literature and bibliographical records about maps, mapmakers, and sources; history of cartography and cartographic techniques; geographical publications (books, pamphlets, reports, etc.); developments in geography as a modern discipline.

HOLDINGS: 3,315,000 maps and charts; 32,500 atlases; several hundred globes and models; 55,000-card bibliography of cartographical literature. The materials are current and historical, foreign and domestic, commercial and official. Current issues of some 200 geographical and cartographical periodicals and a collection of over 8,000 volumes are available for reference use. The cartographic collections include aerial and nautical charts, topographic, geologic, soil, and vegetation map sets, and thematic maps of several hundred special subjects, including manuscript and rare items, historical maps, and maps dealing with climate, solar energy, population, transportation and communication, and wars.

PUBLICATIONS: Bibliographies; locator aids describing specialized cartographic groups. A list of publications and a pamphlet describing the Division's services and collections are available without charge. Information regarding the Division's machine readable map cataloging is given in *Maps: A MARC Format*, available from the Superintendent of Documents, Washington, D.C. 20402.

INFORMATION SERVICES: Within limitations of staff time, the staff answers inquiries by telephone or correspondence and provides reference services to the public in the Map Reading Room. Materials are available for loan to members of Congress, Federal agencies, and authorized libraries. Reproductions of maps not protected by copyright may be ordered through the Library's Photoduplication Service.

Photoduplication Service

1239 Library of Congress
10 First St. SE.
Washington, D.C. 20540
Tel: (202) 426-5640

AREAS OF INTEREST: Photoreproduction standards and techniques; archival preservation and storage of library materials; bibliographic control of microforms.

HOLDINGS: Library of Congress master negative microfilm collection, totaling more than 100,000 reels, including microfilms of the Presidential Papers, the manuscript collections in the library at Mt. Sinai and the library of the Greek and Armenian Patriarchiates in Jerusalem, early State records of the U.S., official papers in the Japanese Ministry of Foreign Affairs, current and retrospective files of more than 1,000 domestic and foreign newspapers and other serials, and more than 15,000 monographs. The Photodup Copies of publications and a publications list are available without charge.

INFORMATION SERVICES: The Service supplies photoreproductions of materials in the Library of Congress collections to Government agencies, to institutions, and to individuals for a fee, subject to copyright and other restrictions. Types of reproductions include microfilms, microfilm enlargement prints, photostats, electrostatic prints, blueprints, ozalid prints, photographs, slides, and color transparencies. The Photoduplication Service will answer inquiries concerning availability of items in the Library of Congress collections and prepare cost estimates. Price lists and order forms are available. Catalogs, lists, and circulars describing the more significant collections and cooperative microfilming projects are available upon request.

Preservation Office

1240 Library of Congress
10 First St. SE.
Washington, D.C. 20540
Tel: (202) 426-5212

AREAS OF INTEREST: Preservation and restoration of books, maps, films, charts, manuscripts, and other library materials; deacidification and lamination of documents; bookbinding; environmental studies, including lighting of exhibit cases housing books and documents.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services and assistance in preservation problems; provides short lists of literature citations.

Science and Technology Division

1241 Library of Congress
10 First St. SE.
Washington, D.C. 20540
Tel: (202) 426-5639 (Reference service)
(202) 426-5687 (General inquiries)

AREAS OF INTEREST: All aspects of science and technology. The Library of Congress attempts to collect definitively in all aspects of science and technology except technical agriculture and clinical medicine, which are subject specialties of the National Agricultural Library and the National Library of Medicine.

HOLDINGS: The subject fields of science and technology are represented in the Library of Congress by more than 2 million books, nearly 20,000 current journal titles, and some 1.25 million technical reports. The Division's Science Reading Room maintains a reference collection of books in the basic sciences, including technical dictionaries, encyclopedias, and handbooks. All major abstracting and indexing journals in the physical, earth, biomedical, and social sciences are represented for purposes of current and retrospective searching. The Division also has immediate custody of an extensive collection of technical reports (some 756,000 titles), most of them in microform, including those issued by the Atomic Energy Commission, the National Aeronautics and Space Administration, the Department of Defense, and other Government agencies. Of special interest is the Division's collection of World War II Office of Scientific Research and Development (OSRD) reports which, along with its register of unique copies in other facilities, is the most nearly complete record of the work of OSRD in existence and provides a substantially complete catalog of OSRD reports.

PUBLICATIONS: In addition to the publication series of the National Referral Center and the Cold Regions Bibliography Section, the Division publishes occasional bibliographies, such as *Nuclear Science in Mainland China: A Selected Bibliography* (1968), *Wilbur & Orville Wright: A Bibliography Commemorating the Hundredth Anniversary of Wilbur Wright* (1967), and *Fish Protein Concentrate: A Comprehensive Bibliography* (1970). It also compiles bibliographies and chronologies published by others, such as *UFO's and Related Subjects: An Annotated Bibliography* (U.S. Air Force, 1969), *Air Pollution Publications: A Selected Bibliography With Abstracts 1966-1968* (U.S. Public Health Service, 1969), *Astronautics and Aeronautics: A Chronology on Science, Technology, and Policy* (monthly with annual cumulation, published by NASA), and *History of Aeronautics and Astronautics: A preliminary Bibliography* (NASA, 1969). Most of the Division's publications are available from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402. A publications list is available.

INFORMATION SERVICES: The Division has primary responsibility for providing reference and bibliographic services on the Library's overall science and technology collections. Brief technical inquiries entailing a bibliographic response are answered without charge. Extensive literature-searching and bibliographic services are provided on a fee basis. Individuals performing their own literature searches may use the Science Reading Room on the fifth floor of the Library of Congress Annex, where microform readers are available for use with the technical report collection.

Cold Regions Bibliography Section

1242 Library of Congress
Science and Technology Division
10 First St. SE.
Washington, D.C. 20540
Tel: (202) 426-5668

AREAS OF INTEREST: Antarctic research in all disciplines; snow, ice, and frozen ground physics in other cold regions; construction of buildings, roads, railways, and pipelines in cold regions; equipment and materials (excluding clothing and plastics) in cold regions.

HOLDINGS: A complete microfiche file of all items referenced.

PUBLICATIONS: *Bibliography on Cold Regions Science and Technology* (annual); *Antarctic Bibliography* (irregular).

INFORMATION SERVICES: Provides reference, literature-searching, and abstracting and indexing services. Services are performed primarily for sponsoring agencies, but small services are occasionally performed free for others as part of the Library's reference activity.

National Referral Center

1243 Library of Congress
Science and Technology Division
10 First St. SE.
Washington, D.C. 20540
Tel: (202) 426-5670 (Referral service)
(202) 426-5680 (Registration)
(202) 426-5687 (General inquiries)

AREAS OF INTEREST: Governmental, industrial, academic, public, and private organizations and institutions, and individuals, with specialized knowledge in any area of the physical, biological, engineering, or social sciences.

HOLDINGS: An inventory of information resources in the United States. The inventory includes broad and specific areas of interest for each organization or individual, holdings (literature and report collections, unpublished data, specimen collections, etc.), titles of representative publications, and the types of information services available.

PUBLICATIONS: *A Directory of Information Resources in the United States: Physical Sciences, Biological Sciences, Engineering* (1965); *Social Sciences* (1965); *Water* (1966); *Federal Government with a Supplement of Government-Sponsored Information Resources* (1967); *General Toxicology* (1969); *Physical Sciences, Engineering* (1971, this revision of the 1965 directory excludes the biological sciences).

INFORMATION SERVICES: Provides names, addresses, telephone numbers, and brief descriptions of appropriate information resources. Functioning as an intermediary, the Center directs those who have questions concerning specific subjects to organizations or individuals with specialized knowledge of those subjects. It does not provide technical details in answer to inquiries or furnish bibliographic assistance (requests for bibliographic services should be addressed to the Science and Technology Division). Services are available without charge, by telephone, correspondence, or through personal visits.

LIBRARY OF VEHICLES

1244 12172 Sheridan Lane
Garden Grove, Calif. 92640
Tel: (714) 539-3534

AREAS OF INTEREST: Vehicular transportation, including man-borne, man-u-motive, animal-drawn, steam-powered, wind-powered, pneumatic-powered, internal combustion-engined, wagons, sleighs, coaches, carriages, buggies, bicycles, trucks, and early railroads; early aviation.

HOLDINGS: 6,500 books; 13,000 journals; 516,000 clippings; 6,500 photos; 2.5 million illustrations; 15,000 sales catalogs; patents, maps, charts, data.

PUBLICATIONS: *The Horseless Carriage Gazette* (bimonthly).

INFORMATION SERVICES: Provides reference, consulting, and duplication services; permits onsite reference for fee.

LIBRASCOPE TECHNICAL LIBRARY

see Singer-General Precision, Inc.

LIGHT SCATTERING DATA CENTER

see Clarkson College of Technology

LIGHTNING PROTECTION INSTITUTE

1245 2 North Riverside Plaza
Chicago, Ill. 60606
Tel: (312) 346-5070

AREAS OF INTEREST: Lightning arrestors (educational aspects).

HOLDINGS: 1,300 periodicals; 800 photos; 40,000 clippings and tear sheets; 220 pamphlets; 130 reports; maps, charts, posters, graphs, tables, standards and specifications, reviews, newsletters, reprints, data.

PUBLICATIONS: *Lightning Protection Guide* (annual); pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite reference. Services are provided on fee basis to nonmembers.

LILLY RESEARCH LABORATORIES

1246 307 East McCarty St.
Indianapolis, Ind. 46206
Tel: (317) 261-4452

AREAS OF INTEREST: Biology; medicine; plant science; animal nutrition; veterinary research; chemistry; pharmaceutical science; toxicology.

HOLDINGS: 35,000 journals; 108,000 cards containing drug product information; books, patents, clippings, pamphlets; domestic and foreign drug encyclopedias; foreign pharmacopeias.

PUBLICATIONS: Scientific library bulletin.

INFORMATION SERVICES: Provides reference and duplication services; prepares bibliographies on request; provides selective current-awareness service; makes interlibrary loans; permits onsite reference by approved visitors.

THE LINCOLN ELECTRIC CO.

1247 22801 St. Clair Ave.
Cleveland, Ohio 44117
Tel: (216) 481-8100

AREAS OF INTEREST: Arc welding; welded design of structures, machinery, and manufactured products.

HOLDINGS: 30,000 photos; 1,000 slides; 6 motion pictures; books, reprints, posters.

PUBLICATIONS: Standards and specifications, reports, books, pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference.

LINCOLN ZEPHYR OWNER'S CLUB INC.

1248 6628 Verna St.
Library, Pa. 15129
Tel: (412) 835-5571

AREAS OF INTEREST: Preservation, restoration, and dissemination of information relating to the Lincoln Zephyr automobile and other Lincoln-produced automobiles utilizing the H-V-12 engine, which were produced between 1936 and 1948, including the Lincoln Continental and Lincoln Custom series automobiles.

HOLDINGS: Small collection of books, periodicals, and reports.

PUBLICATIONS: *The Way of the Zephyr* (bimonthly); membership directory (annual); periodical index (annual).

INFORMATION SERVICES: Answers inquiries; provides consulting services.

LINDA HALL LIBRARY

1249 5109 Cherry St.
Kansas City, Mo. 64110
Tel: (816) 363-4600

AREAS OF INTEREST: Science and technology (excluding clinical medicine and surgery); mathematics; astronomy; physics; chemistry; geology; the biological sciences; engineering and applied science; history of science.

HOLDINGS: About 500,000 pieces; over 25,000 serial titles, of which over 12,500 are currently received, including many in foreign languages; 6,421 reels of microfilm; 84,600 microcards; 201,500 microfiche; 75,000 standards and specifications; despository collections of U.S. Army Map and Rand Corp. publications; complete collection of U.S. Patents on microfilm for the period since July 1, 1946 (with cumulative indexes on microfilm); 50,000 United States and foreign geological survey and topographic maps; comprehensive holdings of subject indexes, abstracts, and bibliographies; extensive holdings of Russian scientific and technical books and serials and of Japanese scientific and technical serials; a large collection of original classical works in science and technology dating back to the 15th century.

PUBLICATIONS: "Serials Holdings in the Linda Hall Library" (October 1, 1968, with one complete revision and one supplement annually); "Japanese, Chinese and Russian Serials in the Linda Hall Library, 1 March 1970"; "Book Collection and Services of the Linda Hall Library" (1967).

INFORMATION SERVICES: Permits onsite use of collection; makes interlibrary loans; provides microfilm and photocopies, subject to copyright regulations. A Missouri Technological Information Center, established in the Linda Hall Library building but supported by State and Federal funds under the State Technical Services Act and sponsored by the University of Missouri at Kansas City, provides a wide range of information services to Missouri users (services to non-Missouri users may be arranged on an individual basis at appropriate rates). (See entry under University of Missouri at Kansas City for a description of the Technological Information Center.)

LINDE DIVISION

see Union Carbide Corp.

LINEN SUPPLY ASSOCIATION OF AMERICA, INC.

1250 P.O. Box 2427
Miami Beach, Fla. 33140

Location:

975 Arthur Godfrey Rd.
Miami Beach, Fla.
Tel: (305) 532-6371

AREAS OF INTEREST: Linen supply, rental, and laundering; sales training; management development; production standards; laundry chemistry; public relations; market research; laundry machinery; delivery methods; sanitation; applied research.

HOLDINGS: Films, reports, abstracts, indexes, publication lists, photos, posters and other display materials, periodicals.

PUBLICATIONS: *Linen Supply News* (monthly); periodicals, reports, motion pictures, abstracts, indexes, photos, slides, posters and other display materials, brochures.

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes referrals; permits onsite reference. Services are primarily for Association members, but are provided to others as time and manpower permit.

LIQUID CRYSTAL INSTITUTE

see Kent State University

LIQUID METALS INFORMATION CENTER

see Atomics International

LITTON INDUSTRIES, INC.

Airtron Division

Solid State Laboratory

1251 Airtron Division of Litton Industries, Inc.
200 East Hanover Ave.
Morris Plains, N.J. 07950
Tel: (201) 539-5500

AREAS OF INTEREST: Single crystals; crystal growth; crystal quality; lasers; magnetic oxides.

HOLDINGS: 150 books; 2,300 periodicals; 1,300 technical reports; 1,300 reprints; reviews, abstracts, indexes.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Guidance and Control Systems Division

1252 Litton Industries, Inc.
5500 Canoga Ave.
Woodland Hills, Calif. 91364
Tel: (213) 887-3865

AREAS OF INTEREST: Engineering, including welding, marine, ceramic, mechanical, and electrical; mathematics; physics; data processing; instrumentation; oceanography; computer technology; guidance and control; management.

HOLDINGS: 15,000 books; 13,000 reports; 445 journal titles; 5 drawers of reprints.

INFORMATION SERVICES: Answers inquiries; makes referrals; makes interlibrary or intercompany loans to the scientific and technical community.

Facilities include laser laboratories, clean rooms, a computer center housing an IBM 360/65 computer, plus other equipment.

LITTON SYSTEMS, INC.

Applied Science Division Library

1253 Litton Systems, Inc.
13010 County Rd. 6
Minneapolis Industrial Park
Minneapolis, Minn. 55427
Tel: (612) 544-0141 Ext. 247

AREAS OF INTEREST: Electronics; particle technology; air and water pollution; biomedical instrumentation; chemistry; aerosol physics.

HOLDINGS: Books, journals, documents, reports, patents, standards and specifications.

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans.

LOCKHEED-GEORGIA CO.

Scientific and Technical Information Department

1254 Dept. 72-34, Zone 7
Lockheed-Georgia Co.
Marietta, Ga. 30060
Tel: (404) 424-2928

AREAS OF INTEREST: Aerospace technology; nuclear science; operations research; electronics; reliability; propulsion; metallurgy; mechanical engineering; fluid mechanics; wind tunnels; composite materials; computers and computer-aided design; materials handling; statistics; mathematics; training; law; economics; business; marketing; transportation; ground support equipment; packaging; management science; information storage and retrieval.

HOLDINGS: 30,000 books; 1,800 journal titles; 10,000 internally-generated reports; 100,000 externally-generated reports; 100,000 externally-generated reports on microfiches; 1,600 maps; 3,500 slides. Motion picture films are loaned to the general public upon written request to: Motion Picture Film Library, Dept. 86-31, Lockheed-Georgia Co., Marietta, Ga. 30060.

PUBLICATIONS: *Lockheed-Georgia Quarterly*, containing scientific and technical papers authored by Lockheed personnel; technical reports; abbreviation lists; standards and specifications; data handbooks; bibliographies; keyword index and sheaf-catalogs; periodic accession lists announcing new materials; subject, author, corporate author, and report number print-outs; *Gelac Authors In Print*, a citation bibliography listing papers presented and technical articles published by Company personnel.

INFORMATION SERVICES: Provides reference and literature-searching services and selective dissemination of information system; makes interlibrary loans; makes provision for translations; announces papers and speeches presented by Company personnel, publication of articles written by Company personnel, and patents granted.

Facilities include microfiche reader/printers and access to an IBM 360 computer.

LOCKHEED MISSILES AND SPACE CO.

Technical Information Center, Palo Alto Branch

1255 Lockheed Palo Alto Research Laboratory
3251 Hanover St.
Palo Alto, Calif. 94304
Tel: (415) 324-3311 Ext. 45041

AREAS OF INTEREST: Aerospace; mathematics; chemistry; electronics; computers; guidance and control; information handling and processing; information storage and retrieval; information systems; materials; propulsion; flight sciences; reentry; bioastronautics; microparticle technology; ocean systems; physics; radiation; guidance systems; space vehicles; missiles; structures.

HOLDINGS: 68,000 books; 25,000 bound periodicals; 290,000 reports; 2,000 current journals; 250,000 microfiche; 2,000 bibliographies; NASA tapes of cataloged/indexed literature on IBM 360/30 retrievable by DIALOG; computer-produced microfilm catalog.

PUBLICATIONS: *Literature Search*; *New Reports and Books*; special bibliographies.

INFORMATION SERVICES: Answers brief inquiries; provides consulting and bibliographic services for fee; permits onsite reference.

Technical Information Center, Sunnyvale Branch

1256 Lockheed Missiles and Space Co.
Building 102
1111 Lockheed Way
Sunnyvale, Calif. 94086
Tel: (408) 739-4321 Ext. 27515

AREAS OF INTEREST: Space sciences and technology, including structures, materials, ceramics, plastics, chemistry, physics, mathematics, electronics, communications, guidance and control, space medicine, astrodynamics, thermodynamics, fluid mechanics, solid state physics, lasers, masers, space physics, nuclear physics, atomic physics, solid mechanics, machine translation, biotechnology, reentry propulsion, information processing, spacecraft, flight technology, space vehicle dynamics, oceanographic systems, missile systems, and space systems.

HOLDINGS: 12,000 books; 4,500 bound periodicals; 38,000 technical reports.

INFORMATION SERVICES: Provides reference and translating services; makes interlibrary loans. Services are available to Government agencies and the Company's staff and subcontractors only.

LOS ALAMOS SCIENTIFIC LABORATORY LIBRARIES

1257 P.O. Box 1663
Los Alamos, N. Mex. 87544
Tel: (505) 667-4448

AREAS OF INTEREST: Theoretical physics and mathematics; experimental nuclear physics; weapons physics, design, and testing; nuclear propulsion, chemistry, and chemical engineering; explosives research; metallurgy; electronics and instrumentation; biology; medicine; industrial hygiene; reactor design and technology.

HOLDINGS: 85,000 books; 100,000 bound periodical volumes; subscriptions to 3,400 journals and other serials; 385,000 technical reports; 400 reels of motion pictures; 5,000 reprints; 15,000 translations; patents, photos.

PUBLICATIONS: Technical reports, acquisition lists, translations, bibliographies.

INFORMATION SERVICES: Lends documentary materials to other organizations on a limited basis.

LOS ANGELES COUNTY AIR POLLUTION CONTROL DISTRICT

1258 434 South San Pedro St.
Los Angeles, Calif. 90013
Tel: (213) 629-4711

AREAS OF INTEREST: Air pollution control; air monitoring for the Los Angeles area; source testing of contaminant emissions; hydrocarbons; oxides of nitrogen; oxides of sulfur (air survey); combustion contaminants; eye irritation; aerosols (atmospheric); ozone (atmospheric); gas chromatography; photochemistry (atmospheric); atomic absorption.

HOLDINGS: 1,725 books; 910 reports; 165 journals.

PUBLICATIONS: *News Report* (monthly); *Quarterly Contaminant Report*; *Air Pollution Data for Los Angeles County* (annual); technical reports on experimental projects.

INFORMATION SERVICES: Permits onsite reference.

LOS ANGELES COUNTY MUSEUM OF NATURAL HISTORY

1259 900 Exposition Blvd.
Los Angeles, Calif. 90007
Tel: (213) 746-0410

AREAS OF INTEREST: Zoology; botany; ethnology; archaeology; paleontology; mineralogy; geology; Western U.S. history and technology.

HOLDINGS: 5 million plants, animals, fossils, minerals, and anthropological specimens; 100,000 historic technological items; 45,000 photos; 45,000 books, pamphlets, and brochures; 80,000 reprints; several thousand maps and charts.

PUBLICATIONS: Science and history bulletins; quarterly magazine.

INFORMATION SERVICES: Answers inquiries; identifies specimens; permits onsite reference by qualified investigators or lends materials to their institutions; rents exhibit materials to Los Angeles public schools; sponsors exhibitions, guided tours, classes, lectures, films, gallery talks, and concerts.

LOS ANGELES DEPARTMENT OF WATER AND POWER

Los Angeles Department of Water and Power Library

1260 Los Angeles Public Library
Municipal Reference Department
Water and Power Division
P.O. Box 111
Los Angeles, Calif. 90054
Tel: (213) 481-4610

AREAS OF INTEREST: Electric supply and distribution; water supply and distribution; electrical energy development and engineering; water sources development and engineering; public utilities administration; management.

HOLDINGS: 16,000 books; 100 bound periodicals; 500 periodical titles; 13,000 pamphlets; 345 maps.

PUBLICATIONS: *The Bookshelf* (Department and Department authors in print and selected items).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides bibliographic services; permits onsite reference by appointment.

Nuclear Projects Office

1261 Power Design and Construction Division
Los Angeles Department of Water and Power
P.O. Box 111, Terminal Annex
Los Angeles, Calif. 90054

Location:

111 North Hope St.
Los Angeles, Calif.
Tel: (213) 481-4211 Ext. 3412

AREAS OF INTEREST: Nuclear power technology, including siting, nuclear plant design, nuclear fuel design, nuclear fuel cycle costs, and coordinating and scheduling, radiation hazard monitoring, and general problems associated with nuclear power plants; nuclear economics; nuclear fuel costs; nuclear reactors; nuclear desalination.

HOLDINGS: 87 cubic feet of records; nuclear fuel cost calculations, nuclear plant cost tables, and nuclear fuel and plant construction schedules in 11 x 17-inch binders; site development data for Bolsa Island and Malibu nuclear plants; 600 technical reports; 300 books; 300 periodicals; pamphlets, maps and charts, preliminary hazards report, site evaluation reports, films, photos, slides, display material, standards and specifications, abstracts, bibliographies, reviews, newsletters, press releases, reprints, publication lists, clippings.

PUBLICATIONS: Data compilations.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; provides public speakers on nuclear power; provides information on computer codes being used in the design of the Bolsa Island and Malibu nuclear plants; permits onsite reference.

LOS ANGELES PUBLIC LIBRARY

Science and Technology Department

1262 Los Angeles Public Library
630 West 5th St.
Los Angeles, Calif. 90017
Tel: (213) 626-7555

AREAS OF INTEREST: Mathematics; astronomy; physics; chemistry; biology; chemical technology; geology; mining; engineering; agriculture; medicine; health and nutrition; construction; oceanography; anthropology.

HOLDINGS: Books for many levels of study; large collection of pamphlets and trade catalogs; subscriptions to more than 1,000 trade, technical, and scientific periodicals, with long back files of many periodicals; publications from other Western States (particularly strong in the geology of Western States); material on agriculture and health from the United Nations; extensive cookbook collection; complete file of U.S. patent drawings and specifications and indexes. The Department is a depository for Federal, State, and U.N. publications in many fields.

INFORMATION SERVICES: Answers inquiries; provides general library reference services; makes referrals; makes direct and interlibrary loans; provides phostatic copies; permits onsite reference.

THE LOS ANGELES RUBBER GROUP, INC.

Rubber Technology Foundation

1263 TLARGI
University of Southern California
University Park
Los Angeles, Calif. 90007
Tel: (213) 746-2573

AREAS OF INTEREST: Rubber and elastomer technology.

HOLDINGS: Technical reports, standards, books, journals, preprints, pamphlets, punched cards with elastomer recipes.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; permits onsite use of collection. The Director provides private consulting services.

LOUISIANA AGRICULTURAL EXPERIMENT STATION

see Louisiana State University

LOUISIANA ARCHITECTS ASSOCIATION

1264 Jack Tar Capitol House Hotel
Baton Rouge, La. 70821
Tel: (504) 348-4331

AREAS OF INTEREST: Architecture of Louisiana.

PUBLICATIONS: *Louisiana Architect* (monthly).

INFORMATION SERVICES: Answers inquiries; makes referrals.

LOUISIANA BOARD ON NUCLEAR ENERGY

1265 P.O. Box 44033, Capitol Station
Baton Rouge, La. 70804

Location:

131 Convention St.
Baton Rouge, La.
Tel: (504) 389-5963

AREAS OF INTEREST: Peaceful uses of atomic energy.

HOLDINGS: Books, reports, reviews, periodicals, reprints, bibliographies, pamphlets.

INFORMATION SERVICES: Makes referrals; permits onsite use of collection; disseminates reports on peaceful uses of atomic energy.

LOUISIANA DEPARTMENT OF AGRICULTURE

Anhydrous Ammonia Commission

1266 Louisiana Department of Agriculture
P.O. Box 44261, Capitol Station
Baton Rouge, La. 70804

Location:

Harry D. Wilson Laboratory, Room 223
Louisiana State University
Baton Rouge, La.
Tel: (504) 389-6291

AREAS OF INTEREST: Safe handling of anhydrous ammonia.

PUBLICATIONS: Directories, specifications.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

LOUISIANA DEPARTMENT OF COMMERCE AND INDUSTRY

1267 Capitol Annex
P.O. Box 44185, Capitol Station
Baton Rouge, La. 70804
Tel: (504) 389-5371

AREAS OF INTEREST: Business, commerce, industry, and transportation in Louisiana.

HOLDINGS: Books, maps, and periodicals, with emphasis on chemicals, petrochemicals, wood, wood products, and agriculture; reports and studies from Federal, State, local, and private sources; complete set of State industrial and manufacturers' directories; telephone directories of major cities; full set of Louisiana legislative acts and attorney general opinions.

PUBLICATIONS: *Louisiana Horizons* (quarterly industrial newsletter); directory of manufacturers; reports and studies on general and particular phases of Louisiana economy.

INFORMATION SERVICES: Answers inquiries; makes referrals; cooperates with other agencies on matters of common interest.

LOUISIANA DEPARTMENT OF CONSERVATION

1268 P.O. Box 4275, Capitol Station
Baton Rouge, La. 70804

Location:

5th and Boyd Sts.
Baton Rouge, La.
Tel: (504) 389-5161

AREAS OF INTEREST: Regulation of oil and gas resources in Louisiana.

PUBLICATIONS: *Annual Oil and Gas Report*; *Secondary Recovery and Pressure Maintenance Report*.

INFORMATION SERVICES: Answers inquiries.

LOUISIANA ENGINEERING SOCIETY

1269 P.O. Box 2683
Baton Rouge, La. 70821

Location:

300 Louisiana Ave.
Baton Rouge, La.
Tel: (504) 344-4318

AREAS OF INTEREST: Social aspects of engineering, including unionization, legislation, and public relations.

PUBLICATIONS: *Louisiana Engineer* (bimonthly).

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes referrals.

LOUISIANA GEOLOGICAL SURVEY

1270 Box G, University Station
Baton Rouge, La. 70803
Tel: (504) 389-5812

AREAS OF INTEREST: Depth, quantity, and quality of ground water; protection of fresh-water sands against pollution by drilling and producing oil and gas wells; underground disposal of industrial wastes; general hydrology.

HOLDINGS: Collection maintained in Louisiana State University Library.

PUBLICATIONS: Bulletins, pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals.

LOUISIANA STATE MINERAL BOARD

1271 P.O. Drawer 2827
Baton Rouge, La. 70821

Location:

5th and Boyd Sts.
Baton Rouge, La.
Tel: (504) 389-5718 Ext. 6005

AREAS OF INTEREST: State-owned minerals, crude oil, condensate, natural gas, casinghead gas, rock salt, salt brine, and sulfur; mining.

PUBLICATIONS: Biennial report.

INFORMATION SERVICES: Answers inquiries; makes referrals.

LOUISIANA STATE SOIL AND CONSERVATION SERVICE

Upper Sabine Soil and Water Conservation District

1272 P.O. Box 111
Many, La. 71449

Location:

Wright Shopping Center
Many, La.
Tel: (318) 256-3491

AREAS OF INTEREST: Soils and capability conservation; conservation planning for pasture, cropland, and woodland; irrigation and drainage.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

LOUISIANA STATE SOIL AND WATER CONSERVATION COMMITTEE

1273 P.O. Drawer CS
Baton Rouge, La. 70803

Location:

Wilson Laboratory Bldg., Room 143
Louisiana State University
Baton Rouge, La.
Tel: (504) 389-6548

AREAS OF INTEREST: Soil and water conservation.

HOLDINGS: Motion pictures, newsletter, newspapers, pamphlets, soil samples.

PUBLICATIONS: Newsletter and various soil and water conservation publications are available free on request.

INFORMATION SERVICES: Answers inquiries; makes referrals, primarily for the soil and water conservation districts of Louisiana.

LOUISIANA STATE UNIVERSITY

Chemistry Library

1274 Louisiana State University
Baton Rouge, La. 70803
Tel: (504) 348-6511 Ext. 2530

AREAS OF INTEREST: Chemistry; chemical engineering.

HOLDINGS: 30,000 books and periodical titles, including 274 journal subscriptions, 72 annual subscriptions, and 90 standing-orders; 51 house organs.

INFORMATION SERVICES: Answers inquiries; lends materials; permits onsite reference; provides duplication and occasional searching services.

Coastal Studies Institute

1275 Louisiana State University
Baton Rouge, La. 70803
Tel: (504) 348-6511

AREAS OF INTEREST: Technical aspects of coastal areas of the world, including geology, sedimentation, geomorphology, botany, chemistry, and surf zone processes.

HOLDINGS: Data.

PUBLICATIONS: Monographs and articles in scientific journals.

INFORMATION SERVICES: Answers brief inquiries; provides advisory services; disseminates reprints and technical reports.

Cooperative Extension Service

1276 Louisiana State University
Baton Rouge, La. 70803
Tel: (504) 343-7444

AREAS OF INTEREST: Agricultural economics; agricultural engineering; agronomy; animal science; clothing; consumer education; dairying; entomology; family life; farm management; forestry; 4-H programs; home management; horticulture; house furnishings; housing; marketing; nutrition; plant pathology; poultry; recreation; resource development; rural sociology; veterinary science.

HOLDINGS: Small collection of reports.

PUBLICATIONS: Bulletins, pamphlets, reports, multilithed materials.

INFORMATION SERVICES: Answers inquiries; disseminates bulletins, pamphlets, multilithed materials, and mass media information; provides consulting and duplication services; makes referrals; conducts educational programs.

Division of Engineering Research

1277 Louisiana State University
Baton Rouge, La. 70803
Tel: (504) 388-3509

AREAS OF INTEREST: Engineering research; chemical engineering; computer sciences; systems analysis; biomedical engineering; geophysics; petroleum engineering; electronics; nuclear engineering; structural engineering; soil mechanics; materials; concrete; water and sewage treatment plants and systems; transportation; aerospace; water pollution; use of water resources; filtration of salt-water muds; control of salt-water intrusion into fresh-water aquifers; saline studies.

HOLDINGS: 1,200 books; several hundred periodicals; 1,000 maps and charts; several thousand graphs and tables; 300 reports; several hundred newsletters; films, photos, slides, pamphlets, bibliographies, project records, magnetic tapes, punched cards, standards and specifications, reviews, abstracts, indexes, reprints, publication lists, press releases, clippings, data.

PUBLICATIONS: Reports, pamphlets, bulletins, reprints. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and bibliographic services; permits onsite reference.

Facilities include electronic, mechanical, and civil engineering laboratories, a computer center, and a library.

Louisiana Agricultural Experiment Station

1278 Louisiana State University
P.O. Drawer E
Baton Rouge, La. 70803
Tel: (504) 388-4181

AREAS OF INTEREST: General agriculture; agricultural chemistry; agricultural engineering; agricultural economics; agronomy; animal science; dairy science; entomology; experimental statistics; feed and fertilizers; food science and technology; forestry and wildlife management; home economics; horticulture; landscape architecture; microbiology; plant pathology; poultry science; rural sociology; veterinary science; major agricultural industries (rice, beef cattle, sugar cane, cotton, soybean, dairying, poultry, forestry, sweet potato, pecan, and fisheries industries).

PUBLICATIONS: *Louisiana Agriculture* (quarterly).

INFORMATION SERVICES: Answers inquiries; makes referrals.

Nuclear Science Center

1279 Louisiana State University
Baton Rouge, La. 70803
Tel: (504) 388-2163

AREAS OF INTEREST: Nuclear technology; nuclear engineering; radioisotope applications; activation analysis; carbon age dating; health physics; nondestructive testing.

HOLDINGS: 200,000 reports, periodicals, and other reference materials.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Provides research and development services on a cost-recovery basis, with each project proposal evaluated individually; provides irradiation services and carbon age dating. Services for educational purposes may be performed at no cost or minimum charges.

Facilities include 30,000 and 8,000 curies Cobalt-60 source, neutron generator, carbon age dating facilities, and various detection and counting equipment.

School of Geoscience

1280 Louisiana State University
Baton Rouge, La. 70803
Tel: (504) 388-3353

AREAS OF INTEREST: Sedimentology; geochemistry; paleontology; palynology; economic geology; clay mineralogy.

PUBLICATIONS: Periodicals, books, reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

Map Room

1281 School of Geoscience
Louisiana State University
Baton Rouge, La. 70803
Tel: (504) 388-5318

AREAS OF INTEREST: Maps and related materials for natural, physical, cultural, and social sciences, with special area emphasis on Southeastern United States and Latin America.

HOLDINGS: 250,000 maps and aerial photos; 5,000 books; Government publications.

INFORMATION SERVICES: Answers inquiries; provides reference and private consulting services; provides duplication services at cost; permits onsite reference by the public, but primarily by researchers, faculty, and students of the School of Geoscience.

University Library

Science Division

1282 Louisiana State University Library
Highland Rd.
Baton Rouge, La. 70803
Tel: (504) 388-2217

AREAS OF INTEREST: Science and technology, especially geology, petroleum engineering, paleontology, botany, plant pathology, ornithology, and all aspects of sugarcane growing and sugar chemistry.

HOLDINGS: 295,000 volumes, including Government documents; 9,000 serial titles.

INFORMATION SERVICES: Answers inquiries; provides reference services; makes direct loans to University personnel and professional scientific and academic personnel in the area; makes interlibrary loans; permits onsite reference by the public.

LOUISIANA STREAM CONTROL COMMISSION

1283 P.O. Drawer FC, University Station
Baton Rouge, La. 70803
Tel: (504) 389-5309 or 389-5300

AREAS OF INTEREST: Water pollution prevention and control; control of industrial effluent discharge into bodies of water used by the public.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals.

LOUISIANA TECH UNIVERSITY

Agricultural Engineering Department

1284 Louisiana Tech University
Box 4337, Tech Station
Ruston, La. 71270

Location:

South Campus
Louisiana Tech University
Ruston, La.
Tel: (318) 255-2976 or 255-6232

AREAS OF INTEREST: Agricultural engineering; scientific and technical information for business and industry with activities related to agriculture.

PUBLICATIONS: *Directory of Louisiana Information Resources*; abstracts.

INFORMATION SERVICES: Answers inquiries; provides consulting and abstracting services; conducts short courses and seminars. Services are provided at cost to all users.

Computing Center

128 Louisiana Tech University
Box 6215, Tech Station
Ruston, La. 71270
Tel: (318) 257-2893

AREAS OF INTEREST: Computer operations; computer programming; statistical analysis; university management information systems.

HOLDINGS: 5,500 computer programs and reports.

PUBLICATIONS: Abstracts.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, and data processing services; lends materials; permits onsite reference. Services are provided free to some users and at cost to others.

Division of Engineering Research

1286 Louisiana Tech University
Box 4875, Tech Station
Ruston, La. 71270
Tel: (318) 257-3212

AREAS OF INTEREST: Nuclear, chemical, civil, electrical, geological, industrial, mechanical, and petroleum engineering; water resources, including conservation and efficient use of water, phases of the hydrologic cycle, water supply and demand, and the economic, legal, engineering, historical, recreational, biological, and ecological aspects of water problems.

HOLDINGS: Books, maps, charts, project records, photos, slides, specimens, data.

PUBLICATIONS: Engineering research reports; brochure.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services, generally for a fee.

Facilities include a Water Resources Center, a Cryogenic Center, a Nuclear Center, laboratories in chemical, civil, electrical, industrial, mechanical, petroleum, and geological engineering, a 150-acre Research Park, a computer center housing IBM 360/30 and IBM 1620 computers, and a well core and sample depository.

Prescott Memorial Library

1287 Louisiana Tech University
Ruston, La. 71270
Tel: (318) 257-2577 (Director of Libraries)

For specialized subject inquiries, call one of the following:

Tel: (318) 257-4830 (Humanities)
(318) 257-4830 (Science-Technology)
(318) 257-4671 (Business, Social Sciences)
(318) 257-4962 (Documents)
(318) 255-4571 (Forestry)

AREAS OF INTEREST: Agriculture; agricultural engineering; agronomy; Air Force aerospace studies; animal husbandry; bacteriology; botany; chemical engineering; chemistry; civil engineering; dairying; data processing; electrical engineering; forestry; geography; geology; home economics; horticulture; industrial engineering; mathematics; mechanical engineering; petroleum engineering; physics; poultry husbandry; psychology; veterinary science; zoology.

HOLDINGS: 155,492 books; 391,786 Federal and State documents; 1,901 periodical titles; 6,545 microfilm reels; 85,953 units of microtext; 19,062 pamphlets; 14,129 vertical files; 27,799 miscellaneous publications (catalogs, reports, directories, bulletins, maps, etc.); 17,187 archival items. The document library is a regional depository for Federal documents and a full depository for State documents.

PUBLICATIONS: Bibliography of masters' and doctoral submissions accepted at Louisiana Tech University (annual).

INFORMATION SERVICES: Answers inquiries; provides reference, consulting, literature-searching, abstracting, and duplication services; makes direct and interlibrary loans; permits onsite reference. All services are free, except interlibrary loans and duplication services.

LOUISIANA WILDLIFE AND FISHERIES COMMISSION

Division of Water Pollution Control

1288 Louisiana Wildlife and Fisheries Commission
P.O. Drawer FC, University Station
Baton Rouge, La. 70803

Location:

Geology Bldg., Room 137
Louisiana State University
Baton Rouge, La.
Tel: (504) 389-5309

AREAS OF INTEREST: Water quality; water pollution control.

HOLDINGS: Small collection of reports.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services; permits onsite reference.

LOW TEMPERATURE SPECIFIC HEATS DATA CENTER

see Commerce, Department of. National Bureau of Standards

LOWELL OBSERVATORY

1289 Flagstaff, Ariz. 86001
Tel: (602) 774-3358

AREAS OF INTEREST: Planets; stars; planetary physics; Mars.

HOLDINGS: 10,000 photographic plates showing images of the brighter planets; data.

PUBLICATIONS: *Lowell Observatory Bulletin* (irregular); books.

INFORMATION SERVICES: Answers inquiries that are pertinent to the Observatory's research subjects; permits onsite reference by qualified scientists.

LOWER MISSISSIPPI VALLEY FLOOD CONTROL ASSOCIATION

1290 Hotel Sheraton-Peabody, Suite 205
Memphis, Tenn. 38103
Tel: (901) 526-7488

AREAS OF INTEREST: Water resources; flood control; levee systems; bank stabilization; drainage; navigation.

HOLDINGS: Books, periodicals, reports.

INFORMATION SERVICES: Answers inquiries; makes referrals to member organizations.

LOYOLA UNIVERSITY

University Library

Science Section

1291 Loyola University Library
6363 St. Charles Ave.
New Orleans, La. 70118
Tel: (504) 866-5471

AREAS OF INTEREST: Physical sciences, including chemistry, computer science, mathematics, and physics; biological sciences, including anatomy, biology, botany, embryology, microbiology, and physiology; dental hygiene.

HOLDINGS: 25,000 books; 30,000 journals; vertical files of maps, pamphlets, and reprints.

INFORMATION SERVICES: Lends materials to qualified researchers and professional persons; makes interlibrary loans.

THE LUBRIZOL CORP. LIBRARY

1292 29400 Lakeland Blvd.
Wickliffe, Ohio 44092
Tel: (216) 943-4200

AREAS OF INTEREST: Organic chemistry; lubrication; protective coatings; lubricants; polymer chemistry.

HOLDINGS: 2,500 books; 1,500 journals; 900 reports.

PUBLICATIONS: Journals.

INFORMATION SERVICES: Provides reference services; permits onsite reference by request.

MACALESTER COLLEGE

Wilkie Metrology Laboratory

1293 Macalester College
1600 Grand Ave.
St. Paul, Minn. 55105
Tel: (612) 698-2414

AREAS OF INTEREST: Precision determination of gage block dimensions by interferometry (a method of measurement using light interference).

HOLDINGS: Data.

PUBLICATIONS: Journal, reports.

INFORMATION SERVICES: Answers inquiries.

MACHINE CHAIN MANUFACTURERS ASSOCIATION

1294 c/o Kunzmann Chain Co.
Providence, R.I. 02907
Tel: (401) 781-1021

AREAS OF INTEREST: Decorative chains produced by machine; jewelry chains; necklaces; bracelet chains.

INFORMATION SERVICES: Answers brief inquiries as time permits; makes referrals.

MAGNAVOX CO.

1295 2131 Bueter Rd.
Fort Wayne, Ind. 46805
Tel: (219) 743-9721

AREAS OF INTEREST: Military electronics, including antisubmarine warfare, armament, communication, radar, and missile guidance; industrial electronics, including power supplies, converters, switches, amplifiers, and printed circuits; consumer electronics, including furniture, radios, television, and phonographs; instrumentation, including underwater instruments.

HOLDINGS: Books, reports, patents.

PUBLICATIONS: Reports, data handbooks, standards and specifications.

INFORMATION SERVICES: Provides reference services and loan privileges to Company employees and to U.S. Department of Defense personnel. For others, access to the material is subject to management approval.

MAINE AGRICULTURAL EXPERIMENT STATION

see University of Maine

MAINE ENVIRONMENTAL IMPROVEMENT COMMISSION

1296 Augusta, Maine 04330
Tel: (207) 289-2591

AREAS OF INTEREST: Water and air pollution and quality.

PUBLICATIONS: Annual report (available on request).

INFORMATION SERVICES: Answers inquiries.

MAINE PORT AUTHORITY

1297 Maine State Pier
Portland, Maine 04111
Tel: (207) 773-5608

AREAS OF INTEREST: Waterborne commerce through Maine ports; maritime shipping; coastal shipping; ferries; river improvements; harbor improvements; construction of public terminals for passenger, freight, and vehicle water transportation; import/export cargoes; rail and truck transportation rates and services; depths of water along Maine coast; available waterfront sites for industrial locations.

PUBLICATIONS: *State of Maine Ports Book* (outlining facilities and services of Maine ports); annual report.

INFORMATION SERVICES: Answers inquiries; consults with and advises representatives of port communities and districts.

MAINE PUBLIC UTILITIES COMMISSION

Water Resources Division

1298 Maine Public Utilities Commission
State House
Augusta, Maine 04330
Tel: (207) 623-4511 Ext. 708

AREAS OF INTEREST: Water resources in Maine.

HOLDINGS: A complete set of U.S. Geological Survey water supply papers.

INFORMATION SERVICES: Answers inquiries; permits onsite use of collection.

MAINE STATE MINING BUREAU

1299 State Office Bldg., Room 211
Augusta, Maine 04330
Tel: (207) 623-4511 Ext. 576

AREAS OF INTEREST: Mineral rights in State-owned lands and waters; exploration activities; mining.

HOLDINGS: Photos, maps, charts, data on claims staked on State-owned mineral rights.

INFORMATION SERVICES: Answers brief inquiries; makes referrals.

MAINE TECHNICAL SERVICES PROGRAM

1300 109 Boardman Hall
University of Maine
Orono, Maine 04473
Tel: (207) 866-7884

AREAS OF INTEREST: Application of science and technology in Maine business and industry.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides literature-searching services through the library of the University of Maine in Orono and Portland; assists in providing interfaces needed in problem solving and product development.

MALLINCKRODT CHEMICAL WORKS LIBRARY

1301 P.O. Box 5439
St. Louis, Mo. 63160
Tel: (314) 231-8980

AREAS OF INTEREST: Chemistry and closely related subjects.

HOLDINGS: 5,000 books; 2,000 journals; 50 file drawers of reports.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference.

P. R. MALLORY AND CO., INC. LIBRARY

1302 P.O. Box 1115
Indianapolis, Ind. 46206
Tel: (317) 636-5353

AREAS OF INTEREST: Metallurgy; business; electrochemistry; electronics; electrical engineering.

HOLDINGS: 2,500 books; 3,000 reports; 325 journal titles.

INFORMATION SERVICES: Makes interlibrary loans.

MANLABS, INC.

1303 21 Erie St.
Cambridge, Mass. 02139
Tel: (617) 491-2900

AREAS OF INTEREST: Materials research and development; ultra high pressure; high temperature; phase transformations; thermodynamics; oxidation; diffusion; mechanical properties; high strength; cryogenic studies; magnetic properties; electrical conductivity; thermal conductivity; specific heat; metals; alloys; ceramics; composites; metal joining; synthesis of inorganic compounds; melting; hot pressing; fatigue, tensile, hardness, and impact testing; crack propagation studies; metallography; light and electron microscopy; electron microprobe analysis; X-ray diffraction; X-ray fluorescence; chemical analysis; heat and mass transfer analysis; computer programming; prediction of phase equilibria; phase diagrams; corrosion; reentry phenomena.

HOLDINGS: 1,000 books; 4,000 reports; periodicals in the materials science area (since 1956); Defense Documentation Center report bibliographies.

PUBLICATIONS: Progress and summary technical reports issued in connection with research sponsored by various Government agencies.

INFORMATION SERVICES: Answers inquiries; makes referrals; performs engineering, design, development, and scientific research in materials science areas for fee; permits onsite use of literature collection.

Facilities include a high pressure laboratory, melting facilities, rolling mill, machine shop, chemical analysis laboratory, metallographic laboratory, electron microscope and electron microprobe analyser, X-ray diffraction laboratory, high temperature oxidation facility, mechanical testing facility, IBM 1130 computational system, and equipment for measuring electrical resistance, specific heat, thermal conductivity, and magnetic properties between cryogenic temperatures and very high temperatures.

MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE AND FITTINGS INDUSTRY

1304 1815 North Fort Myer Dr.
Arlington, Va. 22209
Tel: (703) 525-8526

AREAS OF INTEREST: Standards and codes involving commercial and industrial valves, pipe fittings, and pipe hangers.

PUBLICATIONS: Standards and specifications. A publications list is available.

INFORMATION SERVICES: Answers specific inquiries; makes referrals.

MANUFACTURING CHEMISTS ASSOCIATION

1305 1825 Connecticut Ave. NW.
Washington, D.C. 20009
Tel: (202) 483-6126

AREAS OF INTEREST: Air and water pollution abatement; environmental control; solid wastes management; safe chemicals; chemical engineering; chemical industry information.

HOLDINGS: Small library.

PUBLICATIONS: Bulletins, manuals. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference by researchers.

MAPLE FLOORING MANUFACTURERS ASSOCIATION

1306 424 Washington Ave.
Oshkosh, Wis. 54901
Tel: (414) 233-1920

AREAS OF INTEREST: Flooring, including maple (Acer saccharum), beech (Fagus grandifolia), birch (Betula alleghaniensis), quality control, statistics, mill inspection services, re-inspection services, research and development, floor finishes, floor finish testing program, improved manufacturing procedures, safety, forestry, reforestation, continued supplies of timber, U.S. Forest Service allowable cuts, floor maintenance, floor installation procedures, and adequate labor.

HOLDINGS: Specifications and standards, statistical reports, research records, etc.

PUBLICATIONS: Grading rules, standard specification manual, approved floor finish products list, research reports, statistical reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides floor re-inspection service; distributes free literature to schools, etc.

MARATHON OIL CO.

Denver Research Center, Technical Information Section

1307 Marathon Oil Co.
P.O. Box 269
Littleton, Colo. 80120

Location:

7400 South Broadway
Littleton, Colo.
Tel: (303) 794-2601

AREAS OF INTEREST: Geology; geochemistry; geophysics; drilling; well logging; production of oil and gas; reservoir studies; petroleum processing; motor fuels; lubricants; polymers; catalysts and catalysis; analyses and testing; corrosion and deterioration; pipelines; water transport; storage of petroleum; new power sources; economics; statistics; mathematics; business.

HOLDINGS: 7,500 books; 6,500 journals; 8,500 reports; 2,500 maps and charts; 50 reels of magnetic tape; 36,000 patents; 200 cartridges of 16mm microfilm; scientific idea notebooks; numerous files of correspondence and data on microform and in hard copy.

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans; permits onsite reference to the library by properly cleared non-Company individuals during working hours by prior appointment.

MARBLE INSTITUTE OF AMERICA

1308 Pennsylvania Bldg., Room 544
425 13th St. NW.
Washington, D.C. 20004
Tel: (202) 628-0214

AREAS OF INTEREST: Building marble.

HOLDINGS: Clippings, tear sheets, photos.

PUBLICATIONS: Standards and specifications, pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and bibliographic services.

MARIA MITCHELL OBSERVATORY

1309 3 Vestal St.
Nantucket, Mass. 02554
Tel: (617) 228-9273

AREAS OF INTEREST: Astronomy; variable stars.

HOLDINGS: Photos, reprints, pamphlets, periodicals, booklets, leaflets, brochures.

PUBLICATIONS: Annual report of the Nantucket Maria Mitchell Association; reprints.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; permits onsite use of literature collection; conducts summer training programs for college women; provides night lectures and night observations for the public.

Facilities include 7.5-inch photographic refracting telescope; 8-inch, 5-inch, 3.5-inch, and smaller visual refractors.

MARINE BIOLOGICAL LABORATORY LIBRARY

1310 MBL St.
Woods Hole, Mass. 02543
Tel: (617) 548-3705

AREAS OF INTEREST: All life sciences and allied engineering; geology; paleontology; meteorology; physics; chemistry; oceanography.

HOLDINGS: 140,000 volumes; 4,200 journal titles; 300,000 reprints. The Library serves as a repository for the library collections of the Woods Hole Oceanographic Institution.

INFORMATION SERVICES: Provides reference services to all scientific workers at the several Woods Hole institutions, including the Woods Hole Oceanographic Institution, the laboratory of the U.S. Bureau of Fisheries, and the workshop of the National Academy of Sciences; provides duplication (Xerox) services for interlibrary loan.

MARINE CHEMURGICS, INC.

1311 RFD 1, Box 99 (Ocean)
Newport, N.C. 28570
Tel: (919) 326-8307

AREAS OF INTEREST: Fishery technology; fish and poultry by-products reduction processes and new equipment; animal and poultry nutrition; salmonella contamination and control; handling and processing of seafoods; proteins; fats and oils; rendering methods; blending of feedstuffs.

HOLDINGS: Books, journals, reports, patents, data, nonprinted material.

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Provides consulting services for fee; exchanges information with other research groups on cooperative basis.

MARINE ENGINEERS BENEFICIAL ASSOCIATION

1312 Research and Development Department
17 Battery Pl.
New York, N.Y. 10004
Tel: (212) 425-7280

AREAS OF INTEREST: Marine engineering; ship construction; marine industry training and labor practices.

HOLDINGS: 5,000 construction blueprints; 150 tapes; 1,500 still photos; 35 films; 400 technical reports; 50 standards and specifications; 1,500 books; 5,000 periodicals; 400 pamphlets; 2,000 press releases; 1,000 clippings; data.

PUBLICATIONS: *American Marine Engineer* (monthly); proceedings (biannual).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; provides evaluation of new ship construction, shipboard engineering modifications, and training for the marine industry.

MARINE TECHNOLOGY SOCIETY

1313 1730 M St. NW., Suite 412
Washington, D.C. 20036
Tel: (202) 296-6773

AREAS OF INTEREST: Marine science and technology, including buoy technology, coastal zone management, data engineering, drugs from the sea, fisheries, food from the sea, law of the sea, man's underwater activities, marine biology, marine geodesy, marine geology, marine materials, marine resources, marine economic potential, meteorology, ocean surveys and exploration, oceanographic instrumentation, surface support systems, underwater photography, undersea habitats, undersea vehicles, and undersea cables.

HOLDINGS: Books, reports, reviews, abstracts, pamphlets, proceedings, standards and specifications.

PUBLICATIONS: *MTS Memo* (monthly newsletter); *Marine Technology Society Journal* (quarterly); transactions of conferences and symposia.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides lecture service to schools and organizations (for travel and expenses); permits onsite use of literature collection.

MARITIME ADMINISTRATION

see Commerce, Department of

MARITIME ASSOCIATION OF THE PORT OF NEW YORK

1314 80 Broad St.
New York, N.Y. 10004
Tel: (212) 944-8360

AREAS OF INTEREST: Port of New York maritime shipping; itineraries, arrivals, dockings, and ownership of ships; data on casualties; steamship agencies; descriptive data on the world's fleet of commercial oceangoing vessels; shipping intelligence; weather reports and forecasts.

HOLDINGS: Lloyd's Casualty Reports and Shipping Index and Voyage Supplements (the Association serves as the U.S. distributor for these reports); technical reports, data compilations, newsletter, pamphlets.

PUBLICATIONS: *Maritime Exchange Bulletin* (monthly); annual reports, pamphlets, technical reports.

INFORMATION SERVICES: Answers inquiries from Government agencies.

MARLANE DEVELOPMENT CO., INC.

1315 116 East 16th St.
New York, N.Y. 10003
Tel: (212) 228-6800

AREAS OF INTEREST: Electroplating and metal finishing; corrosion resistance; brush plating and selective plating; anodizing; flow plating; metal removal.

HOLDINGS: Books, periodicals, reports, standards and specifications, pamphlets, photos, slides, newsletters, bibliographies, reviews, press releases, clippings.

INFORMATION SERVICES: Answers inquiries; provides consulting services for fee; provides references to obscure or little-known literature sources.

MARYLAND AGRICULTURAL EXPERIMENT STATION

see University of Maryland

MARYLAND BUREAU OF MINES

1316 City Bldg.
Westernport, Md. 21562
Tel: (301) 359-4031

AREAS OF INTEREST: Health and safety in bituminous coal mining in Maryland.

PUBLICATIONS: Reports, standards and specifications, annual report.

INFORMATION SERVICES: Answers brief inquiries; provides a coal testing laboratory primarily for State institutions.

MARYLAND DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Environmental Health Services

1317 Maryland Department of Health and Mental Hygiene
2305 North Charles St.
Baltimore, Md. 21218
Tel: (301) 383-3010 Ext. 8428

AREAS OF INTEREST: Environmental health, including air pollution, radiation surveillance, water pollution, water treatment, movement and dispersion of contaminants in rivers, surveillance of water supplies and community water systems, and solid wastes.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

MARYLAND DEPARTMENT OF NATURAL RESOURCES

1318 State Office Bldg.
Annapolis, Md. 21401
Tel: (301) 268-3371

AREAS OF INTEREST: Natural resources of Maryland.

HOLDINGS: Books, pamphlets, reprints, newsletters, reviews, photos, slides, maps, publication lists, bibliographies, clippings.

PUBLICATIONS: Pamphlets, maps, photos, annual report.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; permits onsite use of collection.

MARYLAND DEPARTMENT OF WATER RESOURCES

1319 State Office Bldg., Room 207
Annapolis, Md. 21401
Tel: (301) 268-3371 Ext. 410

AREAS OF INTEREST: Water pollution control; enforcement of water pollution laws; water resources planning; flood control; surface- and ground-water management and development; water quality; dam construction.

HOLDINGS: 3,000 reports; 38,000 water quality analyses; 450 maps and charts; 130 photos; 350 slides; 3,500 posters and display materials; 4,600 graphs and tables; data.

PUBLICATIONS: Booklets, data reports, proceedings.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides limited consulting services; conducts water quality tests and analyses and identifies waste contaminants; reports water quality enforcement and water resources management activities.

MARYLAND GEOLOGICAL SURVEY

1320 214 Latrobe Hall
The Johns Hopkins University
Baltimore, Md. 21218
Tel: (301) 235-0771 or 235-1792

AREAS OF INTEREST: Geology, including geohydrology, petrology, geomorphology, structural and economic geology, sedimentation, stratigraphy, geochemistry, and geophysics; shore erosion; paleontology.

HOLDINGS: Maps, cuttings from gas, oil, and water wells, all past publications of Maryland Geological Survey. Publications received on exchange are deposited in The Johns Hopkins University Library.

PUBLICATIONS: Reports of investigations, bulletins, county reports, information circulars, basic data reports, guidebooks, annual report, maps and charts.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and consulting services; permits onsite reference.

MARYLAND PORT AUTHORITY

1321 Pier 2
Pratt St.
Baltimore, Md. 21202
Tel: (301) 752-2118

AREAS OF INTEREST: Maryland port, pier, and harbor facilities; port maintenance and ice breaking; marine telecommunications; foreign trade; cargo handling.

HOLDINGS: Approximately 150 miscellaneous periodicals from ports and maritime organizations around the world; films, photos.

PUBLICATIONS: Periodicals, newsletter, motion pictures, photos, pamphlets, graphs and tables, press releases.

INFORMATION SERVICES: Answers inquiries; makes referrals; disseminates publications to port-connected agencies and organizations, shippers, etc.; permits onsite use of collection.

MASON CONTRACTORS ASSOCIATION OF AMERICA

1322 208 South LaSalle St.
Chicago, Ill. 60604
Tel: (312) 726-5742

AREAS OF INTEREST: All phases of masonry construction, including brick, concrete masonry, structural tile, stone, marble, granite, precast concrete, and all additional products within the masonry classification.

HOLDINGS: A library of published materials on business and trade practices for the masonry construction field.

INFORMATION SERVICES: Answers inquiries; makes referrals. The Association, through its Management Institute, conducts courses throughout the year in masonry estimating, concrete estimating, and financial and tax planning. Material on other related business subjects, insurance, etc., is also available.

MASSACHUSETTS AERONAUTICS COMMISSION

1323 Boston-Logan Airport
East Boston, Mass. 02128
Tel: (617) 727-5350

AREAS OF INTEREST: Air transportation, public and State governmental; airports; heliports; aids to air navigation; aircraft and pilot registration; accident investigation and safety regulation; air education; aeronautical research and development; aviation legislation, both State and Federal.

HOLDINGS: Reports, periodicals, slides, maps, charts, airport plans, posters and display materials, air traffic studies and statistics, abstracts, indexes, newsletters, press releases, clippings and tear sheets, data, aeronautical film.

PUBLICATIONS: *Talespinner* (about 3 issues a year); airport directory, annual report.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides engineering advice and technical assistance to Massachusetts cities and towns.

The Commission has airplane and helicopter facilities.

MASSACHUSETTS AGRICULTURAL EXPERIMENT STATION

see University of Massachusetts

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

1324 500 Arborway
Jamaica Plain, Mass. 02130
Tel: (617) 722-5000

AREAS OF INTEREST: Mass transportation operations, including streetcar, bus, trackless trolley, rapid transit, and subsidized railroad commuter service in a 79-community area comprised of the Greater Boston Standard Metropolitan Statistical Area plus the Town of Maynard.

PUBLICATIONS: Annual report, press releases, System Route Map, timetables, occasional brochures describing modernization and expansion program.

INFORMATION SERVICES: Answers inquiries concerning service in the area and requests concerning mass transportation operations in the area.

MASSACHUSETTS DEPARTMENT OF NATURAL RESOURCES

1325 100 Cambridge St.
Boston, Mass. 02202
Tel: (617) 727-3159

AREAS OF INTEREST: Natural resources of Massachusetts and its adjacent waters, including conservation, marine fisheries, law enforcement, water resources, forests and parks, mineral resources, water resources, and water pollution control.

HOLDINGS: Technical reports, certain legislative books and reports, annual reports of divisions of the Department.

PUBLICATIONS: Reports; handouts pertaining to recreational areas, marine fisheries matters, etc.

INFORMATION SERVICES: Answers inquiries; provides advisory services to duly constituted units falling within certain general categories; provides reference services.

Division of Forests and Parks

1326 Massachusetts Department of Natural
Resources
100 Cambridge St.
Boston, Mass. 02114
Tel: (617) 727-3180

AREAS OF INTEREST: Land and water management; recreation; construction of hydrologic features; dams; picnic areas, camping sites, trails, coastal beaches, skating rinks, swimming pools, and ski facilities; forestry; forest fires; landscapes; disease and insect control; environmental planning.

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes referrals.

Division of Water Resources

1327 Massachusetts Department of Natural
Resources
Leverett Saltonstall Bldg.
100 Cambridge St.
Boston, Mass. 02202
Tel: (617) 727-3267

AREAS OF INTEREST: Comprehensive Statewide water resources planning; reservoir site studies; flood plain delineation; area ground-water studies; reservoir construction; hurricane protection; river basin planning.

INFORMATION SERVICES: Provides Statewide annual precipitation data; answers brief inquiries; makes referrals.

MASSACHUSETTS DEPARTMENT OF PUBLIC HEALTH

Division of Environmental Health

1328 Massachusetts Department of Public Health
600 Washington St., Room 320
Boston, Mass. 02111
Tel: (617) 727-2690

AREAS OF INTEREST: All aspects of sanitary engineering and environmental health; water supplies; air and water pollution control; community sanitation; water chemistry and bacteriology; industrial wastes; solid waste disposal; sanitary codes; pesticide usage; aquatic herbicide usage; radiological health; shellfish.

HOLDINGS: Community project reports and annual reports dating from 1886; books, periodicals, reprints, analyses.

PUBLICATIONS: Sanitary codes for local health boards.

INFORMATION SERVICES: Answers technical inquiries; makes referrals; advises other agencies as appropriate; permits onsite use of collection by special arrangement.

Pesticide Board

1329 Massachusetts Department of Public Health
600 Washington St., Room 770
Boston, Mass. 02112
Tel: (617) 727-2670

AREAS OF INTEREST: Pesticides, including effects on humans, wildlife, and domestic animals; pollution.

HOLDINGS: Over 250 reports; books, periodicals, reprints, Government publications, trade literature.

PUBLICATIONS: Reports, standards and specifications.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS

1330 100 Nashua St.
Boston, Mass. 02114
Tel: (617) 727-4800 (Commissioner)
(617) 727-4933 (Chief Engineer)

AREAS OF INTEREST: Transportation planning; highway engineering and research; construction and maintenance of highways and bridges, including research and development; surveying; bridge design, including research and development; hydrology, including shore protection; solid waste disposal, including design, construction, and operation.

HOLDINGS: An engineering library of many reference publications.

PUBLICATIONS: Location and design study reports, transportation planning reports, annual report.

INFORMATION SERVICES: Provides courtesy copies of many publications on request; cooperates in consulting services with other public agencies.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Numerous information resources exist within the M.I.T. community. Since these are subject to frequent change, however, they may best be approached through any of the specialized libraries, all of which provide referral service. There are five principal libraries, one for each School, plus a number of smaller departmental libraries. The principal libraries are the Dewey Library of Economics, Political Science and Management; the Barker Library of Engineering; the Humanities Library; the Rotch Library of Architecture and Urban Studies; and the Science Library. Additional data relating to those principal libraries that are pertinent to the subject coverage of this Directory will be found below. The smaller departmental libraries are Aeronautics and Astronautics, Room 33-316, *tel:*(617) 864-6900 Ext. 5665; Chemistry, Room 18-490, Ext. 1891; Lindgren (geology, geophysics, meteorology, and oceanography), Room 54-200, Ext. 5679; Materials, Room 13-2137, Ext. 6840; Music, Room 14E-109, Ext. 5689; Physics, Room 26-152, Ext. 1791; and Space, Room 37-582, Ext. 3746. The libraries answer inquiries; provide consulting, reference, and duplication services; make interlibrary loans; and permit onsite use of their collections. Services are provided free to members of the M.I.T. community and several support plans, and to others for a fee.

Barker Library of Engineering

1331 Massachusetts Institute of Technology
77 Massachusetts Ave.
Cambridge, Mass. 02139

Location:
Room 10-550
Tel: (617) 864-6900 Ext. 5662

AREAS OF INTEREST: Civil, electrical, marine, and mechanical engineering; materials science; naval architecture; textiles.

HOLDINGS: About 148,000 volumes and 1,300 current journals.

Rotch Library of Architecture and Urban Studies

1332 Massachusetts Institute of Technology
77 Massachusetts Ave.
Cambridge, Mass. 02139

Location:

Room 7-238
Tel: (617) 864-6900 Ext. 7053

AREAS OF INTEREST: Architectural design and history; urban design; city planning and its sociological and economic aspects; history of painting and sculpture.

HOLDINGS: About 69,000 books, pamphlets, periodicals, and theses, plus a collection of some 86,000 slides and 33,000 photographs.

Science Library

1333 Massachusetts Institute of Technology
77 Massachusetts Ave.
Cambridge, Mass. 02139

Location:

Room 14S-100
Tel: (617) 864-6900 Ext. 5685

AREAS OF INTEREST: Biology; chemical and nuclear engineering; chemistry; mathematics; metallurgy and ceramics; nutrition; physics.

HOLDINGS: Some 289,000 volumes, including a journal collection of nearly 1,600 titles; thousands of technical papers.

MASSACHUSETTS LEGISLATIVE RESEARCH BUREAU

1334 State House, Room 236
Boston, Mass. 02133
Tel: (617) 727-2345

AREAS OF INTEREST: Public administration; Massachusetts government and laws; laws and government of other States; air and water pollution; narcotics; public health; safety regulation.

HOLDINGS: 350 volumes of statutes, acts and resolves, legislative journals, etc.; 48 vertical file drawers of reports, pamphlets, clippings, etc.; 30 vertical file drawers of working papers of Bureau reports.

PUBLICATIONS: Reports (printed as legislative documents); *Index of Reports Authorized by Massachusetts General Court* (irregular); annual report; index of special commissions; quarterly checklist letter.

INFORMATION SERVICES: Answers inquiries; prepares substantial research reports; makes referrals; provides consulting and reference services; permits limited onsite use of reference material and report working papers; distributes printed reports to governmental agencies and others while supply lasts (short-supply reports are occasionally loaned for limited time).

THE MATERIAL HANDLING INSTITUTE, INC.

1335 1326 Freeport Rd.
Pittsburgh, Pa. 15238
Tel: (412) 782-1624

AREAS OF INTEREST: Every type of industrial material handling equipment and its use, including lift trucks (internal combustion powered and electric powered), conveyors, hoists, hand lift trucks and portable elevators, industrial metal containers, monorails, package conveyors, racks, wheels and casters, dock levelers, personnel carriers, controlled mechanical storage systems, and related auxiliary equipment; safety standards; nomenclature; statistics; educational programs; industrial trade show programs.

PUBLICATIONS: *MHI News* (3 issues a year); *College Industry Committee on Material Handling Education News* (3 issues a year); pamphlets, standards and specifications, filmstrips.

INFORMATION SERVICES: Answers inquiries; provides reference services; rents films.

MATHEMATICAL ASSOCIATION OF AMERICA

1336 1225 Connecticut Ave. NW.
Washington, D.C. 20036
Tel: (202) 223-1977

AREAS OF INTEREST: Mathematics.

HOLDINGS: Books, journals, films, photos.

PUBLICATIONS: *American Mathematical Monthly* (10 issues a year); *Mathematics Magazine* (5 issues a year); *Information Booklet*; *Guidebook to Departments in the Mathematical Sciences*.

INFORMATION SERVICES: Answers limited inquiries; makes some referrals.

MATHEMATICS RESEARCH CENTER, U.S. ARMY

see University of Wisconsin

MAURY MICROWAVE CORP.

1337 8610 Helms Ave.
Cucamonga, Calif. 91730
Tel: (714) 987-4715

AREAS OF INTEREST: Microwave theory and techniques; microwave components and laboratory instrumentation; antenna instrumentation; solid state microwave circuits; electronic test equipment; subsystems.

HOLDINGS: 1,000 books; photos, maps, charts, graphs, reports, standards and specifications, periodicals, reprints, booklets, display materials, data.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services for fee; performs special microwave calibration and testing; permits onsite use of literature collection.

MCDONNELL DOUGLAS CORP.

Douglas Aircraft Co.

1338 General Offices Library
3000 Ocean Park Blvd.
Santa Monica, Calif. 90406
Tel: (213) 399-9311 Ext. 2004

Douglas Aircraft Division
Technical Information Center
3855 Lakewood Blvd.
Long Beach, Calif. 90801
Tel: (213) 593-4907

Douglas Missile and Space Systems Division Library
3000 Ocean Park Blvd.
Santa Monica, Calif. 90406
Tel: (213) 391-0311 Ext. 7543

Douglas Space Systems Center Library
5301 Bolsa Ave.
Huntington Beach, Calif. 92646
Tel: (714) 897-0311 Ext. 2317

AREAS OF INTEREST: Aeronautical and aerospace sciences.

HOLDINGS: 500,000 volumes; reports, maps, charts, data.

PUBLICATIONS: Announcement journal, reports, index, bibliography, dictionary.

INFORMATION SERVICES: Permits onsite reference; makes limited interlibrary loans. Most materials are governed by security and proprietary restrictions.

The libraries within the Douglas Co. participate in a company-wide mechanized library program. Information on all aspects of the aeronautical and aerospace sciences is recorded on magnetic tape for subject search by computers. Information retrieval is augmented by acquisitions of tapes and microforms from the National Aeronautics and Space Administration. The libraries are autonomous divisional entities but operate under mutually established regulations. A common dictionary controls the vocabulary of indexing terms, and all library tapes may be searched on demand.

MCLEAN PALEONTOLOGICAL LABORATORY

1339 P.O. Box 916
Alexandria, Va. 22313
Tel: (703) 768-4855

AREAS OF INTEREST: Paleontological, stratigraphic, and geological sciences in any phase where fossils, particularly foraminifera and ostracoda, are used; taxonomy, stratigraphy, ecology, and structural aspects of microfossils; mineralogy; salinity of ocean depths; data processing techniques.

HOLDINGS: A reference library of books, journals, reports, and data.

PUBLICATIONS: The *McLean Card Catalogue of American Foraminifera* and the *McLean Card Catalogue of Ostracoda* furnish media for the identification of fossil species and faunal assemblages from Cretaceous and Tertiary formations. Ecological data on Ostracoda are available in the *H.S. Puri Card Catalogue of Recent Ostracoda*. Both text and illustrations of described species are included in these catalogs, which may be obtained by subscription. Available for purchase are *Manual of Micropaleontological Techniques*; *Manual of Micropaleontological Stratigraphy*; *Reports from McLean Paleontological Laboratory*; and *Strata Data Bibliographic Reference File on Foraminifera/Ostracoda*.

INFORMATION SERVICES: Answers inquiries; provides literature-searching services; provides consulting services for fee; permits onsite use of collection by anyone with a serious interest in paleontology or stratigraphy.

MCMILLAN RADIATION LABS, INC.

1340 Brownville Ave.
Ipswich, Mass. 01938
Tel: (617) 356-5761

AREAS OF INTEREST: Weather radomes; doppler radomes; radome repair; radar absorptive materials; electric insulation; electromagnetic wave absorption; reusable fiberglass containers; reinforced fiberglass parts.

HOLDINGS: 150 reports; 150 pamphlets; data.

PUBLICATIONS: Indexes, pamphlets.

INFORMATION SERVICES: Answers inquiries; provides consulting services for fee; permits onsite reference.

THE MEAD CORP. LIBRARY

1341 Corner 8th and Hickory Sts.
Chillicothe, Ohio 45601
Tel: (614) 772-3588

AREAS OF INTEREST: Packaging; paper; paperboard; pulpwood; forestry; cellulose chemistry; pollution control.

HOLDINGS: 5,000 books; 6,000 bound volumes of periodicals; 300 periodical subscriptions; 18,600 reports; special collection of Dard Hunter books on papermaking by hand; publications of the Institute of Paper Chemistry and Technical Association of Pulp and Paper Industry.

PUBLICATIONS: Bibliographies, translations, bulletin listing new acquisitions.

INFORMATION SERVICES: Permits onsite reference; makes interlibrary loans; provides duplication services for libraries.

MEASUREMENT LABORATORY INFORMATION SERVICE

see Battelle Memorial Institute

MECHANICAL CONTRACTORS ASSOCIATION OF AMERICA, INC.

1342 2 Pennsylvania Plaza, Suite 1950
New York, N.Y. 10001
Tel: (212) 594-0920

AREAS OF INTEREST: Installation of pipes and piping systems, including pipe welding for heating, cooling, ventilating, air conditioning, and plumbing; pneumatic, hydraulic, and power piping; commercial, industrial, and process piping; sprinkler piping; temperature control and plastic piping; electric heat; high- and low-pressure boilers; stokers; oil- and gas-burning equipment; piping insulation, painting, and sheetmetal work; management and labor relations.

HOLDINGS: Books, reports, standards and specifications, periodicals, reprints, pamphlets, graphs, tables.

PUBLICATIONS: *Mechanical Contractor* (monthly).

INFORMATION SERVICES: Answers brief inquiries free; makes referrals; provides testing and rating codes for boiler-burner units; distributes, through the National Certified Pipe Welding Bureau, reports on various welding procedures; permits onsite use of literature collection.

MECHANICAL PROPERTIES DATA CENTER

see Belfour Stulen, Inc.

MELLON INSTITUTE

see Carnegie-Mellon University

MEMPHIS PUBLIC LIBRARY

Goodwyn Institute Library Division

1343 Memphis Public Library
33 South Front St.
Memphis, Tenn. 38103
Tel: (901) 526-8431

AREAS OF INTEREST: Business; science and technology; chemistry; physics; engineering; electronics.

HOLDINGS: 60,000 books; 60,000 journals; 1,500 volumes of bibliographies; 850 volumes of abstracts and indexes; 25,000 topographic maps; 6,000 reels of film; 75,000 microcards; 150,000 clippings; 150

reviews; 2,500 volumes of newspapers; 12,000 pamphlets; ASA, ASTM, and Federal Government specifications; depository collections of AEC, NASA, and State Government publications.

PUBLICATIONS: Acquisitions list (bimonthly); bibliographies (irregular).

INFORMATION SERVICES: Answers inquiries; provides bibliographic services; permits onsite reference.

MEPCO, INC.

1344 Whippany Rd.
Morristown, N.J. 07960
Tel: (201) 539-2000

AREAS OF INTEREST: Electronic components (all types of resistors, microcircuits, thin and thick films, and ceramic capacitors).

HOLDINGS: 130 books; 1.5 million punched cards; 350 standards and specifications; 250 periodicals.

INFORMATION SERVICES: Answers inquiries; permits onsite use of literature collection.

THE WM. S. MERRELL CO.

1345 110 East Amity Rd.
Cincinnati, Ohio 45215
Tel: (513) 821-3811

The Wm. S. Merrell Co. is a division of Richardson-Merrell Inc.

AREAS OF INTEREST: Organic and analytical chemistry; biochemistry; endocrinology; pathology; toxicology; pharmacology; microbiology; pharmaceutical research; medicine.

HOLDINGS: 15,000 books; 350 current periodicals; patents, reports, microfilm; Ringdoc, Farmdoc, CBAC.

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans; permits onsite use of collection.

MERRIMACK COLLEGE

Chemistry Department

1346 Merrimack College
North Andover, Mass. 01845
Tel: (617) 683-7111

AREAS OF INTEREST: Chemistry; physics; mathematics.

HOLDINGS: 25,000 books; 100 periodical titles.

PUBLICATIONS: Research papers.

INFORMATION SERVICES: Answers inquiries; provides reference and literature-searching services; provides consulting, abstracting, and duplication services for fee; makes interlibrary loans; permits onsite use of collection.

MERRIMACK RIVER VALLEY FLOOD CONTROL COMMISSION

1347 4 Park St.
Concord, N.H. 03301
Tel: (603) 224-4568

AREAS OF INTEREST: Flood control; determination of economic and tax loss from flood damage; basin studies; use of water resources in the Merrimack River Valley of New Hampshire and Massachusetts.

HOLDINGS: Flood control data; legislative and historical literature.

PUBLICATIONS: Annual report.

INFORMATION SERVICES: Answers inquiries; provides data on flood damage; permits onsite reference.

METAL BUILDING DEALERS ASSOCIATION

1348 702 Brown St.
Dayton, Ohio 45402
Tel: (513) 222-2616

AREAS OF INTEREST: Prefabricated, preengineered metal construction.

HOLDINGS: Small collection of books, periodicals, and reports.

PUBLICATIONS: *The Metal Builder* (quarterly); annual statistical survey of members.

INFORMATION SERVICES: Answers inquiries; provides reference services; provides duplication services for nominal cost. Services are provided to anyone with a legitimate need-to-know.

METAL LATH ASSOCIATION

1349 221 North LaSalle St.
Chicago, Ill. 60601
Tel: (312) 346-8717

AREAS OF INTEREST: Metal lath use, primarily in the fields of lathing and plastering; concrete design and structural designs; fire-resistive ratings; structural data; sound transmission loss values; acoustical correction; impact resistance.

HOLDINGS: Government reports, industrial literature, technical correspondence, sponsor test programs, books, journals, data.

PUBLICATIONS: *Metal Lath News* (3 issues a year); *Specifications for Metal Lathing and Furring* (annual); *Technical Bulletins* (irregular).

INFORMATION SERVICES: Answers inquiries; provides consulting and literature-searching services; lends documents and test reports; permits onsite use of collection by qualified visitors.

METALS AND PLASTICS PUBLICATIONS, INC. LIBRARY

1350 99 Kinderkamack Rd.
Westwood, N.J. 07675
Tel: (201) 664-1530

AREAS OF INTEREST: Metal finishing.

HOLDINGS: Books, periodicals, reports.

PUBLICATIONS: *Metal Finishing*; books, directories, bibliographies.

INFORMATION SERVICES: Answers inquiries; provides reference and consulting services; permits onsite use of literature collection.

METRIC ASSOCIATION, INC.

1351 c/o Mr. Louis F. Sokol, Secretary
624 North Drury Lane
Arlington Heights, Ill. 60004
Tel: (312) 392-2653

AREAS OF INTEREST: Promotion of the use of the metric system of measurement.

HOLDINGS: 20 measuring devices (metric units); 200 periodicals; books, reprints, pamphlets, publication lists, posters, slides, data.

PUBLICATIONS: *Metric Association Newsletter* (quarterly); *Metric Supplement to Mathematics* (1967); *Bibliography of the Metric System* (1968); *Metric Units of Measure* (1968).

INFORMATION SERVICES: Answers brief inquiries free; makes referrals; provides copies of reference material in files for fee.

METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO

Library

1352 Metropolitan Sanitary District of Greater Chicago
100 East Erie St.
Chicago, Ill. 60611
Tel: (312) 787-8900 Ext. 386

AREAS OF INTEREST: Sewage treatment; sewage disposal; water pollution; water reclamation; water quality; flood control; engineering, including civil, sanitary, mechanical, and electrical.

HOLDINGS: 2,000 books; 185 periodical subscriptions; 600 items in report and reprint collection.

PUBLICATIONS: *The Seventh Wonder* (quarterly; a publication of the District); proceedings.

INFORMATION SERVICES: Answers general inquiries; makes referrals to other units in the District; makes interlibrary loans; provides duplication services for fee; permits onsite use of literature collection.

METROPOLITAN WASHINGTON BOARD OF TRADE

Science Bureau

1353 Metropolitan Washington Board of Trade
1616 K St. NW.
Washington, D.C. 20006
Tel: (202) 783-3535

AREAS OF INTEREST: Physical sciences; engineering; mathematics; life sciences; social sciences; associations, foundations, universities, libraries, and data processing services and equipment in the metropolitan Washington area.

HOLDINGS: Data.

PUBLICATIONS: Three directories: *Scientific Resources in the Washington, D.C. Area*; *Manufacturers Directory*; and *Scientists and Engineers in the Washington, D.C. Area*; brochure.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services primarily to metropolitan research and development firms and to Federal agencies whose principal interests are research.

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

1354 P.O. Box 54153
Los Angeles, Calif. 90054

Location:
1111 Sunset Blvd.
Los Angeles, Calif.
Tel: (213) 626-4282

AREAS OF INTEREST: Provision of supplemental water from the Colorado River within a service area of over 4,800 square miles containing about one-half the population of the State of California. The Metropolitan Water District owns and operates the Colorado River Aqueduct, presently the longest and largest domestic water supply line in the United States. The District is the largest of 31 contractors to receive water from Northern California delivered by means of the California State Water Project and will begin receiving delivery of water through the California Aqueduct in 1972. The District is concerned with all aspects of water supply, storage, and distribution; pumping plants; tunnels; canals; conduits; siphons; dams; reservoirs; telemetry of water data; water treatment, including filtration, softening, and chlorination; water reclamation; water quality; water requirements; underground basins, including replenishment of underground basins and prevention of salt water intrusion; water chemistry; water microbiology; hydroelectric power; water contracts, financing, rates, and prices; water rights; water law and legislation; water supply engineering; water resources planning; water compacts; water economics; water use; desalination; hydraulics; hydrology; and hydrography.

HOLDINGS: Books, reports, historical reports, cost summaries, specifications, drawings.

PUBLICATIONS: *Aqueduct News* (monthly news bulletin); *Annual Report*; *Water from the Colorado River* and *Water from the North* (illustrated folders); various other brochures, pamphlets, and reprints. Most publications are distributed free on request.

INFORMATION SERVICES: Permits onsite reference to the library collection by advance arrangements; provides limited reference services; provides general and technical information on all aspects of the District's operations and on related water problems, with requesters encouraged to submit inquiries by letter; lends two 16mm color motion pictures, *Billion Gallons a Day* and *Water South!*, free for group showings; prepares exhibits, arranges tours of the facilities, and makes speakers available to groups within the State.

MIAMI PUBLIC LIBRARY

Science and Technology Department

1355 Miami Public Library
1 Biscayne Blvd.
Miami, Fla. 33132
Tel: (305) 377-5001

AREAS OF INTEREST: Science and technology; business; Florida, Dade County, and City of Miami.

HOLDINGS: Books, journals, reports, pamphlets, clippings, maps, microfilm. The Library is a depository for U.S. Government documents.

PUBLICATIONS: *Technical Titles* (accessions list).

INFORMATION SERVICES: Provides reference services; makes interlibrary loans. A Spanish-speaking librarian is on the staff.

MIAMI UNIVERSITY (OHIO)

Aeronautics Museum

1356 Culler Hall
Miami University
Oxford, Ohio 45056
Tel: (513) 523-2161 Ext. 426

AREAS OF INTEREST: Aeronautics; Wright Brothers memorabilia; lift and drag indicating instruments; airfoil models; historic wind tunnels (1901, 1908).

HOLDINGS: 20 airfoil models; archival material, photos.

INFORMATION SERVICES: Provides reference services; permits onsite reference.

Army Map Service Depository

1357 Miami University
Shideler Hall and University Library
Oxford, Ohio 45056
Tel: (513) 529-5010

AREAS OF INTEREST: Army Map Service maps.

HOLDINGS: All maps prepared by the U.S. Army Map Service and maps of the State of Ohio.

INFORMATION SERVICES: Provides reference services; permits onsite reference.

Geology Museum and Map Library

1358 Miami University
Schideler Hall
Oxford, Ohio 45056
Tel: (513) 529-3216

AREAS OF INTEREST: Paleontology; mineralogy; geology; geography.

HOLDINGS: The Museum contains fossils, including a number of type specimens, particularly of the Upper Ordovician fauna of southwestern Ohio, southeastern Indiana, and northern Kentucky; a systematic mineral collection; and meteorites from dated falls. The Map Library has general geographic location maps as well as topographic, geologic, and hydrographic maps and charts.

INFORMATION SERVICES: Provides reference and consulting services; permits onsite reference.

Weather Information Center

1359 Culler Hall
Miami University
Oxford, Ohio 45056
Tel: (513) 523-2161 Ext. 426

AREAS OF INTEREST: Weather data for Oxford, Ohio, including pressure, wind velocity, air temperature, and precipitation.

HOLDINGS: Weather data for Oxford, Ohio, from 1943 to present.

INFORMATION SERVICES: Answers inquiries; provides reference and consulting services.

MICHIGAN AERONAUTICS COMMISSION

1360 Capital City Airport
Lansing, Mich. 48906
Tel: (517) 489-2421

AREAS OF INTEREST: Aviation and airport development in Michigan.

HOLDINGS: Data (Michigan).

INFORMATION SERVICES: Answers inquiries; provides consulting services.

MICHIGAN AGRICULTURAL EXPERIMENT STATION

see Michigan State University

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

Forestry Division

1361 Michigan Department of Natural Resources
Stevens T. Mason Bldg.
Lansing, Mich. 48926
Tel: (517) 373-1275

AREAS OF INTEREST: Forestry.

HOLDINGS: Small working collection of books, periodicals, and reports.

PUBLICATIONS: Pamphlets.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

Institute for Fisheries Research

1362 Michigan Department of Natural Resources
University Museums Annex
North University Ave.
Ann Arbor, Mich. 48104
Tel: (313) 663-3554

AREAS OF INTEREST: Physical and chemical features of Michigan's waters; sport fisheries of the State; biology; creel census; age and growth studies; fish and fish foods; ecology; water pollution; aquatic control.

HOLDINGS: Books, journals, reports, data.

PUBLICATIONS: Reports, journal articles, special studies, pamphlets. A *Catalog of Publications* is free on request.

INFORMATION SERVICES: Answers inquiries; provides consulting services on contract basis; permits onsite use of collection by approved visitors; makes materials available free to fisheries researchers in other states and countries on exchange basis; disseminates some publications free and others at cost.

Michigan Geological Survey

1363 Michigan Department of Natural Resources
Stevens T. Mason Bldg.
Lansing, Mich. 48926
Tel: (517) 373-1256

AREAS OF INTEREST: Michigan geology, including rocks and mineral resources; oil; natural gas; quality, quantity, recovery, and use of water resources; geologic aspects of ground-water contamination.

HOLDINGS: 8,000 sets of oil well samples; drillers' logs of water wells; formation samples from selected wells; data on ground-water levels, lake levels, and streamflow; water quality data for surface and ground waters.

PUBLICATIONS: Reports on the availability and quality of ground water in several counties and selected urban areas; investigations of surface-water, groundwater, and water-quality relationships in a few counties; pumpage data and water levels for the Statewide observation well network; biennial report. Publications on water are issued in two series. *Bulletins* are books giving results of comprehensive technical studies. *Water Investigations* cover the geology, hydrology, quality, quantity, recovery, and use of water resources in specific areas. A publications list is available.

INFORMATION SERVICES: Answers general inquiries on Michigan geology and mineral resources; provides physical identification of rock and mineral specimens; advises municipalities, industries, consultants, well drilling contractors, irrigators, and the public on the development of water supplies in Michigan, the geologic aspects of stabilizing inland lake levels, dredging and filling inland waters, and creating artificial lakes and ponds. The oil well samples and other holdings are available for onsite reference.

Michigan Water Resources Commission

1364 Stevens T. Mason Bldg.
Lansing, Mich. 48926
Tel: (517) 373-3560

AREAS OF INTEREST: Hydrology; water use and development planning; water pollution control; beach erosion control; flood control; drought frequency; Great Lakes levels; flood plain development control; submerged lands dredging and filling control; dam construction control; lakeside and streamside residential platting control; inland lakes levels control; water rights; water law; water storage; streamflow; irrigation; protection of public water supply; bridge and highway drainage; agricultural, municipal, industrial, and recreational water use; ground water; rainfall.

HOLDINGS: 500 books; 500 technical reports; 50 bibliographies; 1,000 pamphlets; 100 data compilations; maps, photos, slides, reprints.

PUBLICATIONS: Reports, pamphlets, press releases.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference, consulting, and literature-searching services; permits onsite use of collection.

Research and Development Division

1365 Michigan Department of Natural Resources
Stevens T. Mason Bldg., 7th Floor
Lansing, Mich. 48926
Tel: (517) 373-3750

AREAS OF INTEREST: Mammal, bird, and fish populations, especially those of concern in hunting, sport fishing, and commercial fishing; the dynamics of these populations in relation to habitat quality and to exploitation by hunters and fishermen; surveys of hunters and fishermen, their activities, their success, and the impact of their sport on general public welfare.

HOLDINGS: 9,500 specimens, including birds, mammalian skins, mammal eye lenses, deer ovaries, pathological specimens, deer and elk jaws, and herbarium sheets; 1,550 books; 2,740 technical reports; 3,750 periodicals; 1,950 newsletters; 7,500 reprints; 590 pamphlets; 1,300 press releases; 225 clippings; 572,500 punched cards; 1,470 graphs and tables; 63,500 magnetic tapes; 8,675 photos; 8,750 slides; 25,750 maps and charts.

PUBLICATIONS: Books, technical reports, articles in scientific journals, reprints, maps, charts (all for sale or by subscription). Publication lists are available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and reference services; provides duplication services for maps, charts, technical reports, and reprints; lends some materials; provides research knowledge to resource managers; permits onsite reference.

Facilities include laboratory equipment for pesticide analyses and general diagnostics on wildlife; Cusino Wildlife Research Station; Houghton Lake Wildlife Research Station; Rose Lake Wildlife Research Station; Game Pathology Laboratory; Institute for Fisheries Research; Marquette Fisheries Research Station; Hunt Creek Research Station; Pigeon River Research Station; and Hastings Fisheries Research Station.

MICHIGAN SOIL CONSERVATION COMMITTEE

1366 Department of Resources Development
Michigan State University
East Lansing, Mich. 48823
Tel: (517) 355-3346

AREAS OF INTEREST: Soil conservation; watershed management; surface-water management; wind and water erosion control.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides assistance in establishing and servicing soil conservation districts and processes applications from local communities for watershed assistance.

MICHIGAN STATE UNIVERSITY

Cyclotron Laboratory

1367 Michigan State University
East Lansing, Mich. 48823
Tel: (517) 355-9671

AREAS OF INTEREST: Nuclear physics; cyclotron design studies.

HOLDINGS: Books, reports, standards and specifications, reviews, journals, abstracts, newsletters, preprints, punched cards, slides.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; permits onsite reference.

Highway Traffic Safety Center

1368 Michigan State University
East Lansing, Mich. 48823
Tel: (517) 355-3275
(517) 355-2345 (Library)

AREAS OF INTEREST: All phases of traffic safety, including driver training, law enforcement, traffic law and court administration, highway design and engineering, public traffic-safety education, sociological studies, driver licensing, and other aspects of vehicular safety.

HOLDINGS: 700 books; 2,300 volumes of annual reports of highway departments, safety conferences, research studies, and traffic surveys; 50 vertical file drawers of printed materials; over 50 reels of microfilm and filmstrips; 1,350 volumes of periodicals; 150 current periodical subscriptions; traffic accident statistics for all 50 States and certain European countries.

INFORMATION SERVICES: Answers inquiries by mail; provides duplication services for fee; lends published material; permits onsite reference by those authorized to use the University library.

Institute of Water Research

1369 Michigan State University
East Lansing, Mich. 48823
Tel: (517) 353-3742

AREAS OF INTEREST: Research in water resource areas of biology, engineering, geology, soils, chemistry, and economics. (The Institute is primarily a research coordinating agency.)

HOLDINGS: A specialized library in the water resources field. The Institute also uses the collections of the University Library, which has extensive lists related to all phases of water resources studies.

PUBLICATIONS: Special research publications, annual report. Research results are published in scientific journals and bulletins (copies of papers may be obtained from individual investigators).

INFORMATION SERVICES: Answers inquiries about the Institute's activities; makes referrals; provides consulting services.

Special equipment and facilities are housed in the academic departments involved and include rain-gage networks, laboratory experimental facilities for aquatic research, a waste disposal plant, river, lake, and field research facilities, electrical analogs, an automated meteorological data-acquisition system for microclimatology studies, the University computing and data collection systems, a rain-gage network in a small watershed, facilities for tertiary treatment of wastes, and multiparameter water quality instrumentation.

Michigan Agricultural Experiment Station

1370 Michigan State University
East Lansing, Mich. 48823
Tel: (517) 355-0123

AREAS OF INTEREST: General agriculture; storing, processing, handling, and distribution of farm products; agricultural economics; food technology; plant and crop breeding; plant diseases; weed control; insect control; crop production; soil management; forestry; animal husbandry; poultry; dairy industry; veterinary sciences; fish and wildlife; cancer; rural sociology; forest products; packaging; resource development; rural development; environmental quality; animal waste utilization; home economics.

HOLDINGS: Literature collection on the above subjects.

PUBLICATIONS: Science in Action Series; research bulletins and reports.

INFORMATION SERVICES: Answers inquiries.

Statistical Research Laboratory

1371 Michigan State University
East Lansing, Mich. 48823
Tel: (517) 355-9588

AREAS OF INTEREST: Mathematical statistics and probability (pure and applied).

HOLDINGS: 1,600 books; 820 technical reports; 600 periodicals; 380 graphs and tables; 5,500 reprints; reviews, abstracts and indexes.

PUBLICATIONS: Technical reports, papers in scientific journals.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; prepares analyses and evaluations; disseminates technical reports; permits onsite use of collection.

MICHIGAN TECHNOLOGICAL UNIVERSITY

Ford Forestry Center

1372 Michigan Technological University
L'Anse, Mich. 49946
Tel: (906) 524-3236

AREAS OF INTEREST: Forestry; forest soils; forest economies; forest management; primary processing of felled wood products; sawmill operation; logging; lumber grading; forest inventory; aerial interpretation; Northern forest types.

HOLDINGS: Journals, reports, data.

PUBLICATIONS: *Ford Forestry Center Bulletins* and *Ford Forestry Center Research Notes* (both free).

INFORMATION SERVICES: Answers inquiries; provides consulting services; lends documents; permits onsite use of collection.

Institute of Wood Research

1373 Michigan Technological University
Houghton, Mich. 49931
Tel: (906) 487-2464

AREAS OF INTEREST: Michigan forest areas; wood technology; chemical wood processing; timber harvesting; mechanical engineering of wood processing equipment; economic studies of wood production.

HOLDINGS: 450 books; 4,500 reports; journals, periodicals, data, patents.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; provides reference services; provides consulting services for fee for extensive projects; permits onsite reference.

Facilities include a complete woodworking pilot plant, a physical and mechanical properties testing laboratory, and controlled humidity and temperature chambers.

Library

1374 Michigan Technological University
Houghton, Mich. 49931
Tel: (906) 487-2507

AREAS OF INTEREST: Chemistry; forestry; biological sciences; business and economics; geology; mathematics; metallurgy; mining; physics; all phases of engineering; history of science.

HOLDINGS: 147,000 books; 4,232 journal and serial titles; 51,383 maps; U.S. Government depository library of 155,000 documents; Spitzbergen collection; Canadian documents on geology, metallurgy, and mining; reports, films, microforms, patents.

PUBLICATIONS: *Journal and Serial Holdings in the Michigan Technological University Library*; *Guide to the Library*; *Theses Accepted by Michigan Technological University 1928-1967*; *Theses and Dissertations Accepted by Michigan Technological University 1967-1968*.

INFORMATION SERVICES: Answers inquiries; provides reference services; provides duplication service for fee; makes interlibrary loans; permits onsite reference.

School of Forestry and Wood Products

1375 Michigan Technological University
Houghton, Mich. 49931
Tel: (906) 487-2450

AREAS OF INTEREST: Forestry and wood products, including wood utilization.

PUBLICATIONS: Reports, serials, miscellaneous publications.

INFORMATION SERVICES: Answers inquires free; provides consulting services free or for fee, depending on their nature.

MICROWAVE ASSOCIATES, INC.

Technical Library

1376 Microwave Associates, Inc.
Northwest Industrial Park
Burlington, Mass. 01803
Tel: (617) 272-3000 Ext. 354

AREAS OF INTEREST: Microwave tubes and components; semiconductors and solid state devices; plasma devices; solid state television relays.

HOLDINGS: 1,200 books; 100 periodical titles; 3,000 reports; 1,500 patents; data.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans.

MICROWAVE SPECTRA DATA CENTER

see Commerce, Department of. National Bureau of Standards

MIDWEST PLAN SERVICE

1377 207 Agricultural Engineering Bldg.
Iowa State University of Science and Technology
Ames, Iowa 50010
Tel: (515) 294-4337

AREAS OF INTEREST: Agricultural engineering, including plans for farm buildings and equipment, farm house and equipment plans, livestock facility design data, and rural water systems.

PUBLICATIONS: *Agricultural Engineers' Digests*; plans for farm buildings and equipment, circulars, books.

INFORMATION SERVICES: Answers inquiries.

MIDWEST RESEARCH INSTITUTE

1378 425 Volker Blvd.
Kansas City, Mo. 64110
Tel: (816) 561-0202

AREAS OF INTEREST: Chemical engineering; combustion research; energy conversion research; isolation and synthesis of biologically-active compounds; chemistry, including inorganic, organic, physical, polymer, solid state, surface, industrial, and biochemistry; microbiology; physiology; pharmacology; toxicology; electromagnetic wave radiation and propagation; engineering mechanics; information retrieval; radio-frequency compatibility; simulation devices; solid state devices; applied mathematics; management systems; operations research; statistics; advanced technology; market research; regional economics; water and air pollution; applied research on materials, including metal physics, yield and fracture of materials, fatigue of metals, composite materials, stress corrosion cracking, dispersion-hardened alloy systems, metallography, fractography, electron microscopy, and X-ray analysis; aerospace science and technology; reliability; biomedical engineering; research on analytical methods for pesticides, in formulations and as residues in all types of samples, including foodstuffs, soils, air, water, vegetation, and tissues.

HOLDINGS: 7,000 books; 800 periodical titles; 8,000 reports. The Institute is situated adjacent to the Linda Hall Library and has access also to that Library's holdings, which are described elsewhere in this directory.

PUBLICATIONS: Books, reports, bibliographies, periodicals, abstracts, indexes, directories.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting, reference, and literature-searching services; permits onsite reference; makes interlibrary loans.

The Institute has extensive laboratory facilities.

Germanium Information Center

1379 Midwest Research Institute
425 Volker Blvd.
Kansas City, Mo. 64110
Tel: (816) 561-0202

AREAS OF INTEREST: Germanium chemistry, including mining; metallurgy; organic and inorganic chemistry; optical, magnetic and infrared properties; surface effects; electrochemistry; crystal and defect properties; new techniques and devices; marketing trends.

HOLDINGS: Books, journals, reports, patents, data.

PUBLICATIONS: Newsletter (semiannual); bibliographies; state-of-the-art reviews (available to sponsors only).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides duplication and reference services; compiles and analyzes information on new uses of germanium for producers.

MIDWESTERN INSTRUMENTS, INC.

1380 6422 East 41st St.
Tulsa, Okla. 74135
Tel: (918) 627-1111

AREAS OF INTEREST: Audio and digital tape instrumentation; oscillographs.

HOLDINGS: 150 books; 500 periodicals; 600 reports; 250 standards and specifications; 300 reviews; 1,000 operational manuals; 150 pamphlets; 125 newsletters; 35 abstracts and indexes; 150 instrumentation recorders, meters, oscilloscopes, etc.; 5 motion pictures; 200 photos; 50 slides; maps, charts, graphs, tables, project records, magnetic tapes, reprints, display materials, press releases, competitors' literature, data.

PUBLICATIONS: Operational manuals, newsletter, project records, photos.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services for fee; permits onsite use of literature collection.

MILGO ELECTRONIC CORP.

Technical Information Center

1381 Milgo Electronic Corp.
7620 Northwest 36th Ave.
Miami, Fla. 33147
Tel: (305) 691-1220 Ext. 340 or 343

AREAS OF INTEREST: Design and engineering of electronic instrumentation and control systems; data handling equipment, modems, and systems; data display, especially plotters; automatic test equipment.

HOLDINGS: 1,800 books; 1,000 periodicals; 2,500 technical reports; 1,000 manuals; 16,000 standards and specifications; 1,500 pamphlets; 3,000 clippings; 100 abstracts; 30 bibliographies; 3,500 Dun & Bradstreet reports; reviews, brochures, reprints, press releases, publication lists, microforms.

PUBLICATIONS: Flip-charts for training; 2 motion pictures.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; makes interlibrary loans; permits onsite use of literature collection, subject to security requirements.

MILITARY AIRLIFT COMMAND

see Air Force, Department of the

MILLIPORE CORP.

1382 Ashby Rd.
Bedford, Mass. 01730
Tel: (617) 275-8800

AREAS OF INTEREST: Precision microporous filters and associated apparatus for analytical and process filtration in the chemical, pharmaceutical, aerospace, electronics, petroleum, aviation fuel, health, food, and beverage industries; water purification, deionization, and contamination analysis; laboratory techniques and instrumentation for microbiological and particulate contamination analysis; electrophoresis.

HOLDINGS: Reports, abstracts, reprints, bibliographies, press releases, standards and specifications, films, photos, slides, fibrous and particulate contamination samples, data.

PUBLICATIONS: *Millipore Bibliography* (annual, free); 7 data manuals on filter applications; catalog, technical reports, reprints, bulletins, data sheets.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference; provides reference and literature-searching services; performs filterability determinations free for potential customers; accepts liquid samples for trial filtrations; conducts clinics, seminars, and workshops without charge; lends films and slides on Millipore techniques.

MINE SAFETY APPLIANCES CO. LIBRARY

1383 100 North Braddock Ave.
Pittsburgh, Pa. 15208
Tel: (412) 241-5900

AREAS OF INTEREST: Industrial hygiene and safety, including resuscitators, gas masks, respirators, safety clothing, and head, face, and eye protection; mine hygiene safety, including mine lighting system, audio and video communication, and hazard control appliances (mine dust collectors, fire fighting apparatus, mine ventilation); explosives; stream analyzers; space capsule atmosphere (instrumentation); sound and noise (measurement control); filters; purifiers; exhaust gases.

HOLDINGS: 8,000 books; 2,000 bound volumes of periodicals; 5,000 reports.

PUBLICATIONS: *Recent Accessions* (monthly).

INFORMATION SERVICES: Makes interlibrary loans.

MINERALOGICAL SOCIETY OF AMERICA

1384 c/o Dr. Ralph J. Holmes, Secretary
Department of Geology
Columbia University
Broadway and 116th St.
New York, N.Y. 10027
Tel: (212) 280-4509

AREAS OF INTEREST: Mineralogy; petrology; crystallography.

PUBLICATIONS: *American Mineralogist* (bimonthly); *Mineralogical Abstracts* (quarterly, published jointly with the Mineralogical Society of Great Britain); special papers (irregular).

INFORMATION SERVICES: Makes referrals.

MINNEAPOLIS PLANNING AND DEVELOPMENT DEPARTMENT

1385 501 City Hall
Minneapolis, Minn. 55415
Tel: (612) 330-2597

AREAS OF INTEREST: All areas of physical and social planning in the city of Minneapolis.

HOLDINGS: A library with a small collection of books, periodicals, and reports.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; permits onsite use of collection.

MINNEAPOLIS PUBLIC LIBRARY

Science and Technology Department

1386 Minneapolis Public Library
300 Nicollet Mall
Minneapolis, Minn. 55401
Tel: (612) 372-6552

AREAS OF INTEREST: Pure and applied sciences.

HOLDINGS: 82,500 books; 400 periodical titles; 65 drawers of pamphlets and other vertical file material. The Library is a depository for U.S. and State Government documents.

PUBLICATIONS: Booklists, brochures.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services; provides duplication services for fee; makes interlibrary loans.

MINNESOTA ACADEMY OF SCIENCE

1387 3100 38th Ave. South
Minneapolis, Minn. 55406
Tel: (612) 721-3391

AREAS OF INTEREST: Physical and biological sciences.

PUBLICATIONS: *Journal of the Minnesota Academy of Science*.

INFORMATION SERVICES: Makes referrals to Academy members who are knowledgeable in the area of concern; provides reference services. The Academy does not handle inquiries of a general nature.

MINNESOTA AGRICULTURAL EXPERIMENT STATION

see University of Minnesota

MINNESOTA DEPARTMENT OF ADMINISTRATION

Architecture and Engineering Division

1388 Minnesota Department of Administration
State Administration Bldg., Room G-10
St. Paul, Minn. 55103
Tel: (612) 221-2727

AREAS OF INTEREST: Architectural and engineering aspects of State-owned buildings; development of long range concepts of physical facilities required to accomplish State programs in the areas of higher education, public welfare, corrections, and general government administration.

HOLDINGS: Books, photos, reports, periodicals, booklets, data.

PUBLICATIONS: Standards.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

MINNESOTA DEPARTMENT OF AERONAUTICS

1389 Administration Bldg.
St. Paul Downtown Airport
St. Paul, Minn. 55111
Tel: (612) 222-4741

AREAS OF INTEREST: Civil aviation, with emphasis on Civil Aeronautics Board and Federal Aviation Agency material.

HOLDINGS: 130 books; 275 journals; 1,300 reports; maps, charts, data.

PUBLICATIONS: *Minnesota Airports* (annual); reports, state-of-the-art reviews, standards and specifications, index.

INFORMATION SERVICES: Permits onsite reference.

MINNESOTA DEPARTMENT OF CONSERVATION

Division of Waters, Soils and Minerals

Waters Section

1390 Division of Waters, Soils and Minerals
Minnesota Department of Conservation
Centennial Bldg.
658 Cedar St.
St. Paul, Minn. 55101
Tel: (612) 221-2965

AREAS OF INTEREST: Regulation, management, and development of water resources of Minnesota; issuance of permits for the appropriation of ground and surface waters of the State for all community, industrial, commercial, and agricultural purposes, work in beds of public waters involving channel and beach improvement, roadways across waters, pipeline and aerial water crossings, dredging, shore protection and navigation improvements, construction, repair, and abandonment of dams and structures in public waters, and special operations such as well abandonment, underground storage of natural gas or petroleum products, and use of explosives in public waters; drainage; watershed districts; flood plain management; lake shore and lake use management; dams; water supply; geology; water quality.

HOLDINGS: Well logs, ground-water pumping test data, ground-water levels, streamflow levels, lake levels, water quality analyses, climatological records, drainage enterprise records, lake inventory data, stream and lake files, topographic maps, lake outlet survey maps.

PUBLICATIONS: Reports, bulletins. A publications list is available.

INFORMATION SERVICES: Permits onsite reference to most of the basic data holdings; provides some information by letter and telephone when requests do not entail extensive basic data research.

MINNESOTA DEPARTMENT OF HEALTH

Division of Environmental Health

1391 State Department of Health
717 Delaware St. SE.
Minneapolis, Minn. 55440
Tel: (612) 378-1150

AREAS OF INTEREST: Water supply and treatment; health aspects of quality of lakes and rivers; health aspects of sewage and industrial waste; toxicology; industrial hygiene; ionizing radiation and radioactive materials in the environment; migrant housing, mobile home parks, hotels, resorts, and restaurants; plumbing and swimming pool standards.

HOLDINGS: Data collections on Division analyses.

PUBLICATIONS: Bulletins, pamphlets, reports.

INFORMATION SERVICES: Answers brief inquiries, but does not make available special data compilations; makes referrals; provides consulting services.

MINNESOTA GEOLOGICAL SURVEY

1392 University of Minnesota
Minneapolis, Minn. 55455
Tel: (612) 373-3372 or 373-4986

AREAS OF INTEREST: Geology of mineral deposits and ground water; geologic mapping of bedrock and surficial deposits in the State.

HOLDINGS: Cuttings and core samples of wells in the State; data on subsurface geology, mining areas, and surface topography; well logs.

PUBLICATIONS: *Bulletins*; *Special Reports*; *Reports of Investigations*; *Information Circulars*; *Geologic Map* series; miscellaneous map series, State geologic map, reports, reprints. A publications list is available.

INFORMATION SERVICES: Answers inquiries; provides limited consulting services to other State agencies without charge.

MINNESOTA MINING AND MANUFACTURING CO.

see 3M Co.

MINNESOTA POLLUTION CONTROL AGENCY

1393 State Board of Health Bldg.
University of Minnesota Campus
Minneapolis, Minn. 55440
Tel: (612) 378-1320

AREAS OF INTEREST: Water pollution, water quality, water use, air quality, solid waste, related land use planning, and waste treatment in Minnesota.

HOLDINGS: Films, photos, slides, project reports, maps, charts, published literature.

PUBLICATIONS: *Pollution Control News* (monthly); annual inventory of municipal wastewater disposal plants; monthly, quarterly, and annual reports; special investigation reports; news releases.

INFORMATION SERVICES: Answers inquiries, with priority to those from Minnesota residents; makes referrals; lends films illustrating pollution control work; permits onsite reference.

MINNESOTA SOIL AND WATER CONSERVATION COMMISSION

1394 318 North Hall
St. Paul Campus

University of Minnesota
St. Paul, Minn. 55101
Tel: (612) 221-3767

AREAS OF INTEREST: Soil and water conservation districts in the State; watershed management; State aid for watershed projects.

PUBLICATIONS: Newsletter (quarterly).

INFORMATION SERVICES: Answers inquiries; makes referrals.

MINNESOTA STATE TECHNICAL SERVICES PROGRAM

1395 Minnesota State Planning Agency
State of Minnesota
St. Paul, Minn. 55101
Tel: (612) 221-3379

AREAS OF INTEREST: Technology; industrial techniques; business management techniques; quality control; statistical models; data processing.

PUBLICATIONS: Directories, including the Minnesota *Directory of Manufacturers*, which is on computer tape with special printouts available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services where not available from private firms; distributes directories of expertise and reports of use to certain industries. There is no charge for services unless special operations, such as computer runs, are involved.

MINNESOTA WATER RESOURCES BOARD

1396 555 Wabasha St., Room 206
St. Paul, Minn. 55102
Tel: (612) 221-2840

AREAS OF INTEREST: Minnesota water resources and watershed districts.

HOLDINGS: A small collection of books, periodicals, and reports.

PUBLICATIONS: Occasional reports and papers.

INFORMATION SERVICES: Answers inquiries; provides reference services.

MINOR PLANET CENTER

see International Astronomical Union

MISSISSIPPI AGRICULTURAL EXPERIMENT STATION

see Mississippi State University

MISSISSIPPI BOARD OF WATER COMMISSIONERS

1397 416 North State St.
Jackson, Miss. 39201
Tel: (601) 354-4036

AREAS OF INTEREST: Water resources planning and development in Mississippi; water rights law; licensing of water well drillers; river basin districts.

HOLDINGS: 15,000 water well logs; extensive water-related library, including technical reports, periodicals, and general publications on water subjects.

PUBLICATIONS: *Water-Supply Papers* and technical reports prepared by the U.S. Geological Survey staff and published by the Board; *Mississippi Water News* (monthly, containing summaries of streamflow data, ground-water information, precipitation data, and water-related topics of current interest).

INFORMATION SERVICES: Answers inquiries; makes referrals.

MISSISSIPPI GEOLOGICAL, ECONOMIC, AND TOPOGRAPHICAL SURVEY

1398 P.O. Box 4915
Jackson, Miss. 39216

Location:
2525 North West St.
Jackson, Miss.
Tel: (601) 362-1056

AREAS OF INTEREST: Geology (economic and academic); mineral resources of the State, including metalliferous deposits, petroleum, natural gas, building stones, clays, coals, and cements; water resources; paleontology; stratigraphy; mining and engineering; topography.

HOLDINGS: Books, periodicals, reprints, pamphlets, abstracts, bibliographies; 8,000 oil and water well core samples; 200 slides; 125,000 reports; extensive rock, mineral, and fossil specimens.

PUBLICATIONS: Bulletins, maps, charts. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and bibliographic services; provides testing or identification services on rocks and minerals; permits onsite reference.

MISSISSIPPI OIL AND GAS BOARD

1399 P.O. Box 1332
Jackson, Miss. 39205
Tel: (601) 355-9361

AREAS OF INTEREST: Prevention and control of water pollution and soil contamination by oil and gas facilities in Mississippi.

INFORMATION SERVICES: Answers inquiries; makes referrals.

MISSISSIPPI RESEARCH AND DEVELOPMENT CENTER

1400 Information Services Division
P.O. Drawer 2470
Jackson, Miss. 39205

Location:

3825 Ridgewood Rd.
Jackson, Miss.
Tel: (601) 982-6324

AREAS OF INTEREST: Economic development of Mississippi, including community development and planning, industrial development, management services, market analysis, economics, manpower resources and utilization, educational television, and electronic data processing.

HOLDINGS: Books, pamphlets, periodicals, newspaper clippings, maps, limited audiovisual aids.

PUBLICATIONS: Representative publications include: *Mississippi Manufacturers Directory* (annual); *Economic Highlights of Mississippi*; *Educational Television News* (bimonthly); *Handbook of Selected Data for Mississippi*; *Mississippi Economy in 1975*; *Mississippi Research and Development Center News* (monthly); *Summary of State-Wide Education Study, Phase I*; *Upholstered Furniture Information for the Industrial Developer*; *Recently Published Materials of Interest to Mississippi Businessmen* (monthly); management guides; and technical information guides.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference. Certain materials may be reproduced or borrowed.

MISSISSIPPI SOIL AND WATER CONSERVATION COMMITTEE

1401 Carthage, Miss. 39051
Tel: (601) 267-9882

AREAS OF INTEREST: Flood control and local watershed development; water pollution; rural area development.

INFORMATION SERVICES: Answers inquiries; makes referrals.

MISSISSIPPI STATE UNIVERSITY

Mississippi Agricultural Experiment Station

1402 Mississippi State University
State College, Miss. 39762
Tel: (601) 323-4321 Ext. 233

AREAS OF INTEREST: General agriculture; forestry; home economics; social sciences; livestock management, feeding, and breeding; control of weeds, diseases, insects, and parasites; soil sciences; crop breeding, fertilization, and management.

PUBLICATIONS: *Mississippi Farm Research* (monthly); technical reports, conference proceedings. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

Branch stations are located as follows: Black Belt Branch, Brooksville, Miss.; Brown Loam Branch, Raymond, Miss.; Coastal Plain Branch, Newton, Miss.; Delta Branch, Stoneville, Miss.; North Mississippi Branch, Holly Springs, Miss.; Northeast Mississippi Branch, Verona, Miss.; Pontotoc Ridge-Flatwoods Branch, Pontotoc, Miss.; South Mississippi Branch, Poplarville, Miss.; Truck Crops Branch, Crystal Springs, Miss.

Water Resources Research Institute

1403 Mississippi State University
State College, Miss. 39762
Tel: (601) 323-4321

AREAS OF INTEREST: Agriculture, including movement of water through soils; engineering, including erosion and deposition, irrigation, flow in open channels, and rainfall and runoff; economics, including effect of water resources development on real estate values, industrial and recreational potential of coastal regions, and water rates; forestry, including coastal flatwoods; microbiology, including groundwater recharge and pollution caused by spillage of oil; social science, including political influences in water resources development and social aspects of water resources development; wildlife and zoology; invertebrates in certain wetland plant communities.

HOLDINGS: A part of the holdings of the Mitchell Memorial Library, Mississippi State University.

PUBLICATIONS: Completion reports, conference proceedings, special bulletins.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides detailed information concerning the Institute's projects on request.

MISSOURI BASIN INTERAGENCY COMMITTEE

1404 c/o Colonel O. H. Robinson
Missouri River Division
U.S. Army Corps of Engineers
P.O. Box 103, Downtown Station
Omaha, Nebr. 68101
Tel: (402) 221-3001

AREAS OF INTEREST: Coordination of water resources development activities of Federal and State agencies in the 10-State area of the Missouri River Basin; laws and policies for the Basin's water resources; water and related land resources development planning.

HOLDINGS: Publications of the Committee.

PUBLICATIONS: Annual report, minutes of quarterly meetings, special reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference.

MISSOURI DEPARTMENT OF BUSINESS AND ADMINISTRATION

Water Resources Board

1405 Missouri Department of Business and Administration
P.O. Box 271
Jefferson City, Mo. 65101

Location:
308 East High St.
Jefferson City, Mo.
Tel: (314) 635-9251

AREAS OF INTEREST: Water resources and water use in Missouri.

HOLDINGS: Reports, preprints, reprints, maps, charts, publication lists, reports of Federal agencies and Congressional committees, data.

PUBLICATIONS: *Missouri Water Plan: Phase 1 Development.*

INFORMATION SERVICES: Answers inquiries (inquiries regarding unpublished data are referred to appropriate State agencies); provides literature-searching and duplication services; permits onsite use of literature collection.

MISSOURI DEPARTMENT OF CONSERVATION

1406 P.O. Box 180
Jefferson City, Mo. 65101
Tel: (314) 893-2626

AREAS OF INTEREST: Fisheries management, including water quality control, aquatic weed control, aquatic ecology, fish populations, life history of fishes, limnology, public use of areas, water resource planning, water legislation, reservoir construction, stream access development, stream habitat improvement, and fish culture; game management, including wildlife research, wildlife ecology, population dynamics, epizootic diseases, nutrition, physiological effects of pesticides, wildlife management, hunting season administration, habitat manipulation, and land management; State forestry programs, including fire protection, management of forest lands, utilization and marketing of forest products, reforestation, and identification and control of forest insects and diseases; game and fish management on privately-owned lands and waters; local and regional resource developments, especially water and recreational resources; use of aircraft and high- and low-band radio in wildlife and forestry management.

HOLDINGS: Books, periodicals, project records, motion pictures, slides, reprints, preprints, abstracts, indexes, reports, newsletters, bibliographies, pamphlets, graphs, tables, clippings, data.

PUBLICATIONS: *Missouri Conservationist* (monthly); annual report, news releases, bulletins, regulations and reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; makes educational programs available to schools and special groups.

MISSOURI DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS

Division of Mine Inspection

1407 Missouri Department of Labor and Industrial Relations
100 East Capitol Ave.
Jefferson City, Mo. 65102
Tel: (314) 636-9514

AREAS OF INTEREST: Mines and mining, including inspection and safety; cave inspection; clay; coal; lead; zinc; iron; shale; silica sand; copper; granite.

HOLDINGS: Pamphlets. A publications list is available.

PUBLICATIONS: *Mine Inspection Laws of the State of Missouri*; standards, annual report.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite reference.

MISSOURI DIVISION OF COMMERCE AND INDUSTRIAL DEVELOPMENT

1408 803 Jefferson Bldg.
Jefferson City, Mo. 65101
Tel: (314) 636-5133

AREAS OF INTEREST: All aspects of industrial and economic development in Missouri; dissemination of new technological information; air transportation and air facilities; community betterment.

HOLDINGS: A working collection of books, periodicals, and reports; data on population, retail sales, industrial growth, manufacturing, agriculture, recreation, taxes, minerals, and practically all resources in Missouri; maps on population, railroads, gas and oil pipelines, electrical transmission lines, airports, and water resources; data on industrial research and professional engineering facilities; a museum.

PUBLICATIONS: Directories, reports, brochures, maps. A publications list is available.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services; conducts a Statewide industrial development conference; provides computerized industrial site selection services and community profiles.

MISSOURI GEOLOGICAL SURVEY AND WATER RESOURCES

1409 P.O. Box 250
Rolla, Mo. 65401

Location:
Buehler Park
Rolla, Mo.
Tel: (314) 364-1752

AREAS OF INTEREST: Economic and mining geology; engineering geology; oil and gas geology; geologic mapping; stratigraphy; paleontology; structural geology; educational and recreational geology; ground-water conditions in particular geographic areas; waste disposal; water pollution control; water quality; irrigation problems; water use in agriculture, industry, recreation, municipalities, and rural areas; conservation of water resources.

HOLDINGS: 25,000 logs of water wells in Missouri; extensive collection of unpublished geologic maps and reports relating to Missouri geology; extensive streamflow and water quality records; State and Federal publications, selected journals, technical reports, bibliographies on geology.

PUBLICATIONS: *Bibliography of the Geology of Missouri* (annual); newsletter (monthly); geologic reports and maps in Volume series; Reports of Investigations series; Information Circular series; Miscellaneous series; Water Resources Reports. A publications list is available.

INFORMATION SERVICES: Answers technical inquiries; provides literature references; makes referrals; makes interlibrary loans; permits onsite reference; performs chemical analyses of water samples.

MISSOURI SOCIETY OF PROFESSIONAL ENGINEERS

1410 P.O. Box 365
Jefferson City, Mo. 65101

Location:
210 Monroe St.
Jefferson City, Mo.
Tel: (314) 636-4861

AREAS OF INTEREST: Engineering practices, fees, and codes; standards and qualifications required for engineers in Missouri.

PUBLICATIONS: *Missouri Engineer* (monthly); *Guide for the Engagement of Engineering Services*; pamphlets, booklets, newsletter.

INFORMATION SERVICES: Answers general inquiries; provides consulting and reference services.

MISSOURI SOIL AND WATER DISTRICTS COMMISSION

1411 705 Hitt
University of Missouri
Columbia, Mo. 65201
Tel: (314) 449-6316

AREAS OF INTEREST: Formation and operation of soil and water conservation districts and watershed subdistricts in the State.

HOLDINGS: A collection of watershed applications, reports from soil district supervisors and watershed trustees, records of districts and watershed subdistricts.

PUBLICATIONS: Monthly news release on Commission activities; pamphlets, booklets.

INFORMATION SERVICES: Answers inquiries; makes referrals.

MITRE CORP. LIBRARY CENTER

1412 Route 62
Bedford, Mass. 01730
Tel: (617) 271-4830

AREAS OF INTEREST: Command and control systems; air traffic control; communications; guided missiles; electromagnetic and acoustic countermeasures; detection; linguistics; mathematics; symbolic logic; electronic engineering; radar and antennas; human engineering; information retrieval; computers; computer programming; systems analysis; blast effects; physics; earth sciences; industrial management.

HOLDINGS: 44,000 books; 130,000 reports; 725 journals; patents.

PUBLICATIONS: Acquisitions list.

INFORMATION SERVICES: Provides reference and translating services; makes interlibrary loans of open literature; lends other material on need-to-know basis.

MIXING EQUIPMENT CO., INC.

1413 P.O. Box 1370
Rochester, N.Y. 14603

Location:

135 Mt. Read Blvd.
Rochester, N.Y.
Tel: (716) 436-5550

AREAS OF INTEREST: Fluid mechanics; fluid mixing; chemical, mechanical, and electrical engineering; waste treatment; aeration; continuous processing; extraction; rotating equipment; agitation; gas-liquid contacting; vibrations; statistics; analog and digital computation; mass transfer; rheology; heat transfer.

HOLDINGS: 5,000 reports; 2,000 abstracts; 5,000 bibliographies; 20 films; 3,000 photos; 3,000 slides; 2,000 reprints; 1,000 graphs and tables; 200 periodicals; 800 pamphlets; books, monographs, publication lists, reviews, standards and specifications, punched cards, instruments.

PUBLICATIONS: Catalogs, reprints of technical articles.

INFORMATION SERVICES: Answers inquiries; makes referrals; makes interlibrary loans.

Facilities include test tank facilities to 80 feet in diameter with 600,000 gallons capacity, mechanical test drives to 150 hp, and an IBM 360/30 computer.

MOBIL CHEMICAL CO.

Industrial Chemicals Division

Research and Development Library

1414 Industrial Chemicals Division
Mobil Chemical Co.
P.O. Box 631
Ashland, Va. 23005

Location:

Atlee-Elmont Interchange
Interstate 95
Hanover County, Va.
Tel: (703) 798-8367 Ext. 38 or 63

AREAS OF INTEREST: Industrial and agricultural chemistry; phosphorus chemistry; chemical engineering.

HOLDINGS: 4,000 books; 3,500 journals; reports, patents, data.

INFORMATION SERVICES: Permits onsite reference; makes interlibrary loans.

MOBIL ELECTRONICS RESEARCH LABORATORIES

1415 P.O. Box 1132
Anderson, Ind. 46015

Location:

3023 Mounds Rd.
Anderson, Ind.
Tel: (317) 642-7976

AREAS OF INTEREST: Radio communications; wireless power; gravitation by electromagnetics; weather control by electromagnetic means; automatic signalling and control devices; radiant energy devices.

HOLDINGS: 100 books; 6,000 periodicals; 500 abstracts; 350 reports; 350 newsletters; 100 standards and specifications; 350 preprints and reprints; 250 publication lists; 6,000 pamphlets; 75 bibliographies; 250 press releases; 1,300 clippings; 75 maps and charts; 150 photos; 250 electronic devices; data.

PUBLICATIONS: Catalog.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services for fee; permits onsite reference to certain portions of collections.

MOBIL OIL CORP.

General Services Library

1416 Mobil Oil Corp.
150 East 42d St.
New York, N.Y. 10017
Tel: (212) 697-4200

AREAS OF INTEREST: Petroleum; economics; geology; industrial relations; public relations; business.

HOLDINGS: 11,800 books; 670 journals; 2,500 reports.

PUBLICATIONS: Daily news summary.

INFORMATION SERVICES: Provides reference services; permits onsite use of collection by employees of agencies and organizations (the Library is not open to the general public).

MOBIL RESEARCH AND DEVELOPMENT CORP.

Central Research Division Library

1417 Mobil Research and Development Corp.
P.O. Box 1025
Princeton, N.J. 08540
Tel: (609) 737-3000 Ext. 328 or 325

AREAS OF INTEREST: Organic, inorganic, and physical chemistry; nuclear physics; pure and applied mathematics; microbiology; metallurgy.

HOLDINGS: 6,980 books; 369 journal titles; 8,240 bound journals; 4,770 reports; abstracting and indexing services and U.S. patents on microfilm.

PUBLICATIONS: Announcement journal.

INFORMATION SERVICES: Makes interlibrary loans of books and Xeroxed copies of articles from journals; permits onsite use of collection by appointment.

Facilities include a Xerox machine and microfilm and microfiche reader-printers.

Field Research Laboratory Library

1418 Mobil Research and Development Corp.
3600 Duncanville Rd.
Dallas, Tex. 75211
Tel: (214) 331-6531

AREAS OF INTEREST: Petroleum exploration, production, and engineering; petroleum geology.

HOLDINGS: 25,000 books; 36,000 patents; 600 periodical titles; photos, maps, charts, translations.

INFORMATION SERVICES: Permits onsite reference by appointment only.

Paulsboro Laboratory Technical Information Group

1419 Mobil Research and Development Corp.
Paulsboro, N.J. 08066
Tel: (609) 423-1040

AREAS OF INTEREST: Petroleum processing, refining, and conversion (excluding exploration and production); petrochemicals, product uses, and related technology.

HOLDINGS: 17,000 books; 450 journal titles; 135,000 patents; 15,000 reports.

PUBLICATIONS: Accessions list, abstract journal, index, bibliography.

INFORMATION SERVICES: Provides reference services to outsiders when approved by management; makes interlibrary loans.

MOLTEN SALTS DATA CENTER

see Rensselaer Polytechnic Institute

MONORAIL MANUFACTURERS ASSOCIATION

1420 Gateway Towers, Gateway Center
Pittsburgh, Pa. 15222
Tel: (412) 471-1580

AREAS OF INTEREST: Inplant monorail systems.

PUBLICATIONS: Booklets, specification sheets.

INFORMATION SERVICES: Inquiries are answered by the Association or referred to member companies for reply.

MONTANA AERONAUTICS COMMISSION

1421 P.O. Box 1698
Helena, Mont. 59601
Tel: (406) 442-8160

AREAS OF INTEREST: Airport development, aviation education, air safety, and air navigation aids for Montana.

HOLDINGS: Periodicals, motion pictures, photos, slides, maps, charts, posters and other display materials, newsletters, publication lists, pamphlets, press releases, data.

PUBLICATIONS: *Montana and the Sky* (monthly); biennial report, handbooks, directory, reports, aeronautical chart, density altitude chart.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

MONTANA AGRICULTURAL EXPERIMENT STATION

see Montana State University

MONTANA BUREAU OF MINES AND GEOLOGY

1422 Main Hall
Montana College of Mineral Science and Technology
Butte, Mont. 59701
Tel: (406) 792-8321

AREAS OF INTEREST: Efficient development of Montana's mineral resources; Montana geology, topography, and mineral deposits, including metals, industrial minerals, coal, oil, gas, and underground water supply.

HOLDINGS: Mineral specimens, data compilations, technical reports, journals, maps and charts, graphs and tables, project records, abstracts and indexes, photos, bibliographies, pamphlets, reprints, newsletters, publication lists, press releases, clippings.

PUBLICATIONS: Biennial report, technical reports, maps, bulletins, circulars, press releases. A publications list is available on request.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides limited consulting and bibliographic services; lends materials; disseminates publications (some free); permits onsite reference and copying of materials.

MONTANA DEPARTMENT OF HEALTH

Division of Environmental Sanitation

1423 Montana Department of Health
Cogswell Bldg.
Helena, Mont. 59601
Tel: (406) 449-2406

AREAS OF INTEREST: Environmental sanitation in the State, including public water supplies, water and sewage treatment, and stream pollution abatement; standards for waste disposal; stream criteria.

HOLDINGS: A library of research data and published literature. The Division also maintains a collection of water samples from all municipal water supplies in the State.

INFORMATION SERVICES: Answers inquiries; makes referrals.

MONTANA STATE UNIVERSITY

Center for Industrial Development

1424 Montana State University
Bozeman, Mont. 59715
Tel: (406) 587-3121 Ext. 455 or 591

AREAS OF INTEREST: Industrial engineering; manufacturing; economic development.

HOLDINGS: Books, periodicals, reports.

PUBLICATIONS: Reports on economic and engineering feasibility for investment opportunities in Montana.

INFORMATION SERVICES: Answers inquiries; provides consulting services; conducts research and development on contract basis; performs feasibility studies for new or expanded enterprises. The Center provides most services free under Federal programs.

Department of Chemistry

1425 Montana State University
Bozeman, Mont. 59715

Tel: (406) 587-3121 Ext. 291

AREAS OF INTEREST: Chemistry; biochemistry; structural chemistry; relation of structures to properties and function; pesticides and pesticide residues in feeds; radioisotopes and radioisotope techniques; analytical methods, including chromatography, trace analysis, spectrometry (mass, ultraviolet, visible, infrared, nuclear magnetic resonance); X-ray crystal structural analysis; photochemistry; natural product biosynthesis.

HOLDINGS: Books, periodicals, reports, Government documents.

PUBLICATIONS: Articles in scientific journals (reprints provided on request); special technical reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services on fee basis; conducts special research on contract basis.

Montana Agricultural Experiment Station

1426 Montana State University
Bozeman, Mont. 59715
Tel: (406) 587-3121

AREAS OF INTEREST: General agriculture; agricultural economics; agricultural engineering; rural sociology; agronomy; soils; animal sciences; range management; bacteriology; chemistry; climatology; home economics; recreation area management; plant pathology; veterinary science; zoology; entomology; biomedical photography; roadside revegetation; genetics.

HOLDINGS: Reports, journals, films, photos, brochures, data.

PUBLICATIONS: *Now* (quarterly review journal); reports, index, directory, research bulletins.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite reference; provides soil analyses, fertilizer recommendations, grain inspection, and chemical analyses for fee.

MONTANA WATER RESOURCES BOARD

1427 Sam W. Mitchell Bldg.
Helena, Mont. 59601
Tel: (406) 449-3634

AREAS OF INTEREST: Coordination of Federal, State, and local water development activity in Montana; construction, operation, and maintenance of State irrigation projects; administration of Montana's ground-water code, controlled ground-water areas, and compilation of material for the State water plan and ultimate needs study; county-by-county field survey and publications on surface water rights; cooperative streamflow measurements; coordination of water conservancy districts in Montana; compacts and agreements between Montana and other States and Canada; representation on intra-agency committees on the Columbia and Missouri River Basins.

HOLDINGS: Reference library of technical reports and books, topographic maps, surface-water measurement reports, survey water rights booklets, ground-water logs, and aerial photographs.

PUBLICATIONS: Reports on surface water rights by counties; ground-water publications and inventory series publications in conjunction with the State water plan and ultimate needs study; newsletter (quarterly).

INFORMATION SERVICES: Answers inquiries concerning conservation and development of Montana resources and inquiries concerning the Board's publications, slide series, and visual aids.

MOORE RESEARCH LABORATORIES, INC.

1428 2221 Kansas Ave.
Silver Spring, Md. 20910
Tel: (301) 585-6171

AREAS OF INTEREST: Paints and related products and materials; pigments; varnishes; coatings; various polymers; testing.

HOLDINGS: 280 books; 1,240 standards and specifications; 150 pamphlets; abstracts, indexes.

INFORMATION SERVICES: Answers brief inquiries; provides consulting services on coating problems for fee; permits onsite use of literature collection; guides builders, construction engineers, and architects in specifications of paints, related coatings, and surface preparations.

MOREHEAD STATE UNIVERSITY

Johnson Camden Library

1429 Morehead State University
Morehead, Ky. 40351
Tel: (606) 784-4181

AREAS OF INTEREST: Physical sciences; engineering; biological sciences.

HOLDINGS: 25,000 books; 250 periodical titles; 1,000 reports. The Library is a depository for U.S. Government publications.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services; makes direct and interlibrary loans; permits onsite reference.

MORRISON OBSERVATORY

1430 Central Methodist College
Fayette, Mo. 65248
Tel: (816) 248-2452

AREAS OF INTEREST: All aspects of eclipsing binaries (observational and theoretical, photometric and spectrographic), particularly interpretation of eclipsing binary light curves.

HOLDINGS: 500 reports; journals, statements of new observing programs being inaugurated.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

MORTON INTERNATIONAL, INC.

Research Laboratory

1431 Morton International, Inc.
11710 Lake Ave.
Woodstock, Ill. 60098
Tel: (815) 338-1800

AREAS OF INTEREST: Sodium chlorides; food and feed application; water purification; ice control on highways; road stabilization; dust control; agricultural pesticides; seed disinfectants; soil fumigants; grain fumigants; fungicides; bactericides; insecticides; herbicides; vinyl polymer latices; paper coatings; laminated packaging materials; epoxy potting resins; automotive, furniture, and floor polishes and cleaners; household specialty products; aerosols; fine organic chemicals; sodium sulfate; hydrochloric acid; activated decolorizing clays; magnesium oxide and magnesium carbonates; steel; rubber; plastics; photographic developers and fixers; X-ray and microfilm applications; rock salt; vacuum and solar evaporation; physics and chemistry of salt, including crystallization; saline water conversion to fresh water; food flavoring products.

HOLDINGS: 3,000 books; 400 journal titles currently received; 4,000 bound periodical volumes; 2,500 reports; patents, films, photos, maps, charts, standards and specifications, data sheets, reprints.

PUBLICATIONS: *Morton International, Inc. News* (monthly); reports, journals, bibliography, translations.

INFORMATION SERVICES: Provides literature- and patent-searching, reference, consulting, and duplication services; makes interlibrary loans; permits onsite use of collection.

MOSS LANDING MARINE LABORATORIES

1432 P.O. Box 223
Moss Landing, Calif. 95039
Tel: (408) 633-3378

AREAS OF INTEREST: Marine sciences, especially marine biology and marine geology; environmental relations of physical parameters and marine organisms; effective use of marine resources; estuarine and nearshore oceanography.

HOLDINGS: Museum collection of marine specimens; a library of about 2,000 books, 191 U.S. serial titles (70 currently received), and 350 foreign serial titles (110 currently received).

PUBLICATIONS: Annual report of student research; quarterly newsletter; journal articles.

INFORMATION SERVICES: Answers inquiries; conducts an educational workshop for teachers of earth science, marine biology, and oceanography; permits onsite reference.

MOSSBAUER EFFECT DATA CENTER

see North American Rockwell Corp.

MOTOR BUS SOCIETY, INC.

1433 767 Valley Rd.
Upper Montclair, N.J. 07043
Tel: (201) 746-4923

AREAS OF INTEREST: History of buses and bus lines; preservation of buses for historical purposes; bus photographs, timetables, builders' specifications, bus deliveries, and formation of bus companies, etc.

HOLDINGS: 6,000 photos; 1,500 slides; 4,000 timetables; 130 bus delivery lists; 25 models; 250 specifications; 1,250 pamphlets.

PUBLICATIONS: *Motor Coach Age* (monthly).

INFORMATION SERVICES: Answers brief inquiries; provides bibliographic services; reproduces photographs for fee; permits onsite use of collection.

MOTOR VEHICLE RESEARCH OF NEW HAMPSHIRE, INC. RESEARCH CENTER

1434 Newmarket, N.H. 03857

Location:
Junction U.S. 4 and NH 125
Lee, N.H.
Tel: (603) 742-6122

AREAS OF INTEREST: Automotive research and development; accident investigation; tire research; safety product evaluation and development.

HOLDINGS: Small reference collection of books and reports.

PUBLICATIONS: Books, research reports, booklets.

INFORMATION SERVICES: Answers inquiries; provides consulting services and tests and evaluates products for fee.

MOTOR VEHICLE SAFETY PROGRAMS SERVICE

see Transportation, Department of. National Highway Safety Bureau. National Traffic Safety Bureau

MOUNT CUBA ASTRONOMICAL OBSERVATORY, INC.

1435 P.O. Box 3915
Greenville, Del. 19807

Location:
Hillsidemill Rd.
Greenville, Del.
Tel: (302) 654-6407

AREAS OF INTEREST: Astronomy; astrophysics; photoelectric photometry of eclipsing binary stars, flare stars, and minor planets; U-B-V photoelectric photometry of early-type stars; occultation interferometry; astrometry of minor planets.

HOLDINGS: 900 Books; 700 photos; 5,000 Palomar Sky Survey reprints; 36 periodicals; star charts, star catalogs, moon maps, reports, slides, films, abstracts, indexes, pamphlets, data.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference by organization members and by others by request (public night is first Monday of every month).

Facilities include a 24-inch, f/16 or f/32 Cassegrain telescope; Block PbS interferometric spectrometer; U-B-V photoelectric photometer; f/4 Baker corrector for main telescope; 4-inch refractor telescope; desk calculator; optical and electronic laboratory instruments; machine shop; and a Hope-Jones synchronome clock.

MOUNT WASHINGTON OBSERVATORY

1436 Chief Observer
Gorham, N.H. 03581
Tel: (603) 466-0001

President
Mount Washington Observatory
Revolutionary Rd.
Concord, Mass. 01742
Tel: (617) 369-5365

AREAS OF INTEREST: Atmospheric electricity; icing; icing nuclei data; snowflake study; weather control; cosmic ray neutron intensity; cloud theory; geophysics; meteorology; climatology; environmental pollution.

HOLDINGS: 125 sets of project records; graphs, tables, reports, books, journals, abstracts, indexes, pamphlets, data.

PUBLICATIONS: *Mount Washington Observatory News Bulletin* (quarterly).

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference; provides duplication services; investigates specific problems on contract basis.

MSA RESEARCH CORP.

1437 Evans City, Pa. 16033
Tel: (412) 538-3510

AREAS OF INTEREST: High temperature heat transfer; liquid metals technology; liquid metals handling hardware; human factors, including life support and protection; chemical warfare technology; alkali metal chemistry; contaminant elimination, sampling, and filtration in many environments; mine acid control by biological means; air and water pollution technology.

HOLDINGS: Books, journals, reports, patents.

PUBLICATIONS: Liquid metals literature review.

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans.

MUELLER BRASS CO. LIBRARY

1438 1925 Lapeer Ave.
Port Huron, Mich. 48060
Tel: (313) 985-5111

AREAS OF INTEREST: Copper; brass; aluminum; forgings; extrusions; castings; metalworking; dies; metallurgy; refrigeration; plumbing; heating; air conditioning.

HOLDINGS: Books, journals, reports, patents, data.

PUBLICATIONS: Indexes, bibliographies.

INFORMATION SERVICES: Except for restricted Company reports, materials are available on loan or for onsite reference to local industrial community libraries, public libraries, and trade associations.

MUSEUM OF NORTHERN ARIZONA

1439 P.O. Box 1389
Flagstaff, Ariz. 86001

Location:

Fort Valley Rd.
Flagstaff, Ariz.
Tel: (602) 774-2433

AREAS OF INTEREST: History and natural history of the Southwest, particularly the anthropology, archeology, biology, ethnology, geology, and paleontology of northern Arizona and the Colorado Plateau.

HOLDINGS: 90,000 artifacts; exhibits of rocks, fossils, animals, and plants; 9,000 books; 4,500 volumes of journals; 12,000 reprints; 2,800 maps; 14,000 negatives and slides.

PUBLICATIONS: *Plateau* (quarterly); technical reports, monographs, research papers. A publications list is available.

INFORMATION SERVICES: The Museum provides reference and loan services and facilities for readers. Laboratory space is available to visiting scientists. Admission to the Museum's exhibits is free.

Facilities include a Research Center, located on 110 acres, containing Geology, Anthropology, and Biology buildings, laboratories, and housing.

NALCO CHEMICAL CO.

1440 6216 West 66th Pl.
Chicago, Ill. 60638
Tel: (312) 458-0720

AREAS OF INTEREST: Chemistry; industrial water treatment; corrosion inhibitors; antifoams; ion exchange; paper; coagulation; oil additives; microbiocides; weed control; water pollution.

HOLDINGS: 8,800 books and bound journals; 3,500 unbound journals; 4,000 reports (internal); patents, films, photos, data.

PUBLICATIONS: Monthly Library Bulletin of accessions.

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans (except for reference material); provides consulting services for fee.

NASHVILLE PUBLIC LIBRARY

1441 222 Eighth Ave. North
Nashville, Tenn. 37203
Tel: (615) 242-0551

AREAS OF INTEREST: Science and technology; accounting; business; real estate; investment; management; public relations; advertising; personnel; taxation; local history; architecture; foreign trade.

HOLDINGS: 235,780 books; 18,630 periodicals; 13,400 bound volumes of Government documents; 3,000 magnetic tapes; 4,870 reels of microfilm (mostly of local newspapers); 1,700 newspapers; 2,000 standards and specifications; 520 motion pictures; 450 maps and charts; 200 abstracts and indexes; 20,000 pamphlets; 100 bibliographies.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides bibliographic services; lends some materials; permits onsite use of collection. The Library serves as headquarters for the Regional Technical Information Center.

NASSON COLLEGE

Mathematics and Science Subdivision

1442 Nasson College
Main St.
Springvale, Maine 04083
Tel: (207) 324-5340 Ext. 27

AREAS OF INTEREST: Botany; zoology; microbiology; physiology; genetics; cytology; marine zoology; chemistry (inorganic, organic, analytical); biochemistry; physics; mathematics; aquatic ecology, with emphasis on estuaries; water pollution control.

PUBLICATIONS: *Bio Notes* (bimonthly, except summer); reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes referrals. Services are provided free to some users and at cost to others.

NATICK LABORATORIES

see Army, Department of the. Army Materiel Command

NATIONAL ACADEMY OF ENGINEERING

see also National Academy of Sciences--National Academy of Engineering; National Academy of Sciences--National Academy of Engineering--National Research Council

Aeronautics and Space Engineering Board

1443 National Academy of Engineering
2101 Constitution Ave. NW.
Washington, D.C. 20418

Location:

Joseph Henry Bldg., Room 738
2100 Pennsylvania Ave. NW.
Washington, D.C.
Tel: (202) 961-1356

AREAS OF INTEREST: Aeronautics (airframe, propulsion, control, avionics, supporting facilities); space vehicles (propulsion, guidance, control, launch facilities).

HOLDINGS: Reports.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Provides advisory and consulting services to governmental and other agencies under contractual arrangements.

Commission on Education

1444 National Academy of Engineering
2101 Constitution Ave. NW.
Washington, D.C. 20418

Location:

Joseph Henry Bldg., Room 611
2100 Pennsylvania Ave. NW.
Washington, D.C.
Tel: (202) 961-1417

AREAS OF INTEREST: Engineering education.

PUBLICATIONS: Project reports.

INFORMATION SERVICES: Answers inquiries; provides advisory services; makes referrals.

Committee on Telecommunications

1445 National Academy of Engineering
2101 Constitution Ave. NW.
Washington, D.C. 20418

Location:

Joseph Henry Bldg., Room 222
2100 Pennsylvania Ave. NW.
Washington, D.C.
Tel: (202) 961-1414

AREAS OF INTEREST: Telecommunications technology, including radio, television, satellite communications, telephone communications, and teleprocessing of data; public policy for telecommunications, including research and development, offering of services, and national management of telecommunications resources; economic and social value of the radio-frequency spectrum; application of telecommunications technology to functional areas of the city such as public administration, transportation, education, health, environmental control, and public safety.

HOLDINGS: Small working collection of books, periodicals, and reports (approximately 350).

PUBLICATIONS: Reports.

INFORMATION SERVICES: Provides advisory and consulting services; permits onsite use of collection. Services are available to qualified groups--usually any level of Government, nonprofit foundations, scientific societies, or industry associations--that represent general rather than special interests.

NATIONAL ACADEMY OF SCIENCES

World Data Center A: Coordination Office

1446 National Academy of Sciences
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1478

Three World Data Centers (WDC) were established to make available data collected during the International Geophysical Year (IGY, 1957-58): WDC-A in the United States, WDC-B in the Soviet Union, and WDC-C in several countries of Western Europe and in Australia and Japan. The National Academy of Sciences directs WDC-A, which consists of the Coordination Office at the above address and nine subcenters located in various Federal Government agencies and scientific organizations.

AREAS OF INTEREST: International exchange of geophysical data and information for scientific programs, such as the International Geophysical Year, the International Years of the Quiet Sun, and the Upper Mantle Project.

PUBLICATIONS: Catalogs of data (semiannual); *IGY General Reports.*

INFORMATION SERVICES: Answers inquiries regarding data interchange matters in general and the World Data Center A as a whole. Inquiries concerning data in specific disciplines should be addressed to the appropriate subcenter listed below.

World Data Center A: Geomagnetism, Seismology, and Gravity

1447 Environmental Data Service, ESSA
Rockville, Md. 20852
Tel: (301) 496-8160

AREAS OF INTEREST: Land and ocean measurements; aircraft, ship, and satellite observations; soundings; earthquakes; earth oscillations; geomagnetism; seismology; gravity; earth tide changes.

HOLDINGS: Magnetograms from 50 worldwide observatories, scientific reports, tabulated data.

PUBLICATIONS: Data catalogs (semiannual), reports.

INFORMATION SERVICES: Answers inquiries; assists scientists in obtaining data; lends and reproduces data. The only charge is for the cost of reproducing data.

World Data Center A: Glaciology

1448 U.S. Geological Survey
1305 Tacoma Ave. South, Room 300
Tacoma, Wash. 98402
Tel: (206) 383-2861 Ext. 318

AREAS OF INTEREST: All aspects of glaciology, including glaciological instruments and methods, physics of ice, glaciers, ice caps, sea ice, glacial geology, glacial geomorphology, glacial geophysics, ice ages, methods of dating, permafrost and frozen ground studies, meteorological and climatological glaciology, snow, floating ice, ice shelves, icebergs, river and lake ice, and frost action on rocks and soil.

HOLDINGS: 300 books; 1,500 journals; 2,000 reports; 1,500 reprints; 1,500 maps; manuscripts. The Center also has a Glacier Research Photograph Collection of some 25,000 ground and air photos of glaciers, chiefly those of Alaska.

PUBLICATIONS: *Glaciological Notes* (quarterly).

INFORMATION SERVICES: Answers inquiries; assists scientists in obtaining data; lends and reproduces data. The only charge is for the cost of reproducing data.

World Data Center A: Longitude and Latitude

1449 U.S. Naval Observatory
Washington, D.C. 20390
Tel: (202) 696-8422

AREAS OF INTEREST: Moon-position camera observations; measurement of lunar latitude and longitude during ascension and descension of the moon.

HOLDINGS: Data.

PUBLICATIONS: Data catalogs (semiannual), reports.

INFORMATION SERVICES: Answers inquiries; assists scientists in obtaining data; lends and reproduces data. The only charge is for the cost of reproducing data.

World Data Center A: Meteorology

1450 National Weather Records Center
Asheville, N.C. 28801
Tel: (704) 253-0481

AREAS OF INTEREST: Meteorological observations from ships and stations, including surface and upper air synoptic observations, solar radiation, ozone, atmospherics, atmospheric electricity, atmospheric chemistry, nuclear radiation, and evaporation and evapotranspiration observations.

HOLDINGS: IGY and IGC (July 1957-December 1959) surface and upper air data on microcards, including surface observations from about 2,000 land stations and 3,000 ships, upper air observations from about 550 stations, and evaporation and evapotranspiration data from some 350 stations. Post-1959 surface and upper air synoptic data and physical meteorological data for a limited number of stations are available in the form of tabulations and summaries.

PUBLICATIONS: *Data Reports--Meteorological Rocket Network Firings* (monthly); data catalogs (semiannual).

INFORMATION SERVICES: Answers inquiries; assists scientists in obtaining data; lends and reproduces data. The only charge is for the cost of reproducing data.

World Data Center A: Oceanography

1451 Building 160
2d and N Sts. SE.
Washington, D.C. 20390
Tel: (202) 693-3753

AREAS OF INTEREST: Oceanographic data, including observations from shore and fixed stations and from ships and other mobile platforms.

HOLDINGS: Data on punched cards and tape. The Center is contiguous to the National Oceanographic Data Center and has access to the data in that Center.

PUBLICATIONS: Data catalogs (semiannual), reports.

INFORMATION SERVICES: Answers inquiries; assists scientists in obtaining data; lends and reproduces data. The only charge is for the cost of reproducing data.

World Data Center A: Rockets and Satellites

1452 Goddard Space Flight Center
Code 601
Greenbelt, Md. 20771
Tel: (301) 982-6695

AREAS OF INTEREST: Rocket and satellite data.

HOLDINGS: Data on rockets and satellites, including flight summaries, processed optical and radio observations of satellites, and reports and reprints of rocket and satellite results. The Center is contiguous to the National Space Science Data Center and has access to the data in that Center.

PUBLICATIONS: Data catalogs (semiannual), reports.

INFORMATION SERVICES: Answers inquries; assists scientists in obtaining data; lends and reproduces data. The only charge is for the cost of reproducing data.

World Data Center A: Tsunamis

1453 Environmental Science Services
Administration
P.O. Box 3887
Honolulu, Hawaii 96812
Tel: (808) 546-5698

AREAS OF INTEREST: Tsunamis.

HOLDINGS: Marigrams and seismograms from selected stations.

PUBLICATIONS: Data catalogs (semiannual), reports.

INFORMATION SERVICES: Answers inquiries; assists scientists in obtaining data; lends and reproduces data. The only charge is for the cost of reproducing data.

World Data Center A: Upper Atmosphere Geophysics

1454 Environmental Science Services
Administration
Boulder, Colo. 80302
Tel: (303) 447-1000 Ext. 3381

AREAS OF INTEREST: Solar and interplanetary phenomena; ionospheric phenomena; flare-associated events; aurora; cosmic rays; airglow.

HOLDINGS: Upper atmosphere geophysical data, including ionograms, all-sky camera film, maps, and data tabulations.

PUBLICATIONS: Data catalogs (semiannual), reports.

INFORMATION SERVICES: Answers inquiries; assists scientists in obtaining data; lends and reproduces data. The only charge is for the cost of reproducing data.

World Data Center A: Upper Mantle Project

1455 Lamont-Doherty Geological Observatory
Palisades, N.Y. 10964
Tel: (914) 359-2900 Ext. 209

AREAS OF INTEREST: Paleomagnetism; volcanology; geochemistry; deep drilling; geothermics; recent movements of the earth's crust; properties of rocks under high pressure and temperature.

HOLDINGS: Reports and other publications.

PUBLICATIONS: Data catalogs (semiannual), reports.

INFORMATION SERVICES: Answers inquiries; assists scientists in obtaining data; lends and reproduces data. The only charge is for the cost of reproducing data.

NATIONAL ACADEMY OF SCIENCES--NATIONAL ACADEMY OF ENGINEERING

see also National Academy of Engineering; National Academy of Sciences--National Academy of Engineering--National Research Council

National Academy of Sciences--National Academy of Engineering Library

1456 2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1272

AREAS OF INTEREST: Science, technology, and related subjects of agency interest.

HOLDINGS: A virtually complete set of the publications of the National Academy of Sciences, its National Research Council, and the National Academy of Engineering; biographical publications; scientific dictionaries and encyclopedias; major indexing and abstracting services; 400 periodical titles; college and university catalogs and similar works of special value to the institution's reference requirements. The Library is oriented to reference rather than research materials and relies heavily on interlibrary loans and commercial sources to supplement its limited primary resources.

INFORMATION SERVICES: Library services are mainly for agency personnel. However, inquiries requiring reference services based on the collections are accepted, and the collections are accessible for onsite use by the scientific and academic community, Government officials, industrial and commercial organizations, and students. Those unfamiliar with the institution and its library are advised to contact the librarian or assistant librarian prior to their first visit.

NATIONAL ACADEMY OF SCIENCES--NATIONAL ACADEMY OF ENGINEERING-- NATIONAL RESEARCH COUNCIL

see also National Academy of Engineering; National Academy of Sciences--National Academy of Engineering; National Academy of Sciences--National Research Council; *and* National Research Council

Office of Documentation

1457 National Academy of Sciences--National
Academy of Engineering--National
Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1245

AREAS OF INTEREST: Scientific documentation, including the organization, evaluation, transformation, recording, storage, retrieval, and dissemination of information; international documentation activities, particularly those connected with the International Federation for Documentation (FID); secretariat for the U.S. National Committee for FID.

PUBLICATIONS: *The Metallurgical Searching Service of the American Society of Metals--Western Reserve University: An Evaluation*; *Scientific Information Activities of the National Academy of Sciences--National Research Council.*

INFORMATION SERVICES: Answers inquiries; makes referrals.

Office of Information

1458 National Academy of Sciences--National
Academy of Engineering--National
Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1518

AREAS OF INTEREST: NAS-NAE-NRC activities.

PUBLICATIONS: *News Report* (10 times a year); *National Academy of Sciences--National Academy of Engineering--National Research Council: Organization and Members* (annual); *Annual Report of the National Academy of Sciences--National Academy of Engineering--National Research Council.*

INFORMATION SERVICES: This Office is a central point of access to information on the various units of the NAS-NAE-NRC. It maintains awareness of specialized NAS-NAE-NRC capabilities and refers requests accordingly. In cases where an inquiry directed to a particular board, committee, or office is not satisfied, the requester should contact the Office of Information for further guidance.

Panels Advisory to the National Bureau of Standards

1459 National Academy of Sciences--National
Academy of Engineering--National
Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1237

AREAS OF INTEREST: Evaluation of research, development, and technical services with respect to the functions of the National Bureau of Standards.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services. Services are provided to qualified scientists on a time-available basis.

U.S. National Committee for Rock Mechanics

1460 National Academy of Sciences--National
Academy of Engineering--National
Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1245

AREAS OF INTEREST: Education in rock mechanics; rock mechanics research programs in industry, Government, and universities; U.S. and international activities in rock mechanics.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals.

U.S. National Committee for the International Council for Building Research, Studies, and Documentation

1461 National Academy of Sciences--National
Academy of Engineering--National
Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1348

AREAS OF INTEREST: Building (scientific, technical, economic, and social aspects).

INFORMATION SERVICES: Refers inquiries to members of the Committee or to the International Council, as appropriate.

NATIONAL ACADEMY OF SCIENCES--NATIONAL RESEARCH COUNCIL

see also National Academy of Sciences--National Academy of Engineering; National Academy of Sciences--National Academy of Engineering--National Research Council; *and* National Research Council

U.S. National Committee for the International Hydrological Decade

1462 National Academy of Sciences--National
Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1204

AREAS OF INTEREST: Hydrology, including large-scale water and waterborne materials balances; river, lake, and ground-water basin studies, including the International Field Year for the Great Lakes (jointly with Canadian National Committee for IHD); hydrologoical processes and techniques; hydrological education; international cooperation in hydrological studies.

PUBLICATIONS: *International Hydrological Decade: Phase I--Proposed United States Program 1965-1974* (1965); *International Hydrological Decade--Framework for the United States Program* (1966); *Water, Man, and the IHD* (1966); *IHD Bulletin* (quarterly, in the AGU Transaction); *Catalogue of IHD Representative and Experimental Research Basins in the United States* (1969).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides loan copies of foreign compilations and reports pertinent to IHD; provides scientific guidance for U.S. participation in the International Hydrological Decade program.

U.S. National Committee for the International Scientific Radio Union

1463 National Academy of Sciences--National
Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1237

AREAS OF INTEREST: Scientific study of radio communication, including organization of international radio research studies, promotion of standards, and methods of measurement.

HOLDINGS: 500 reports; 500 books.

PUBLICATIONS: Periodicals, reports.

INFORMATION SERVICES: Answers inquiries; makes referrals. Services are provided to qualified scientists on a time-available basis.

U.S. National Committee for the International Union of Biochemistry

1464 National Academy of Sciences--National
Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1257

AREAS OF INTEREST: Activities of the International Union of Biochemistry.

INFORMATION SERVICES: Answers inquiries.

U.S. National Committee for the International Union of Pure and Applied Chemistry

1465 National Academy of Sciences--National
Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1257

AREAS OF INTEREST: Activities of the International Union of Pure and Applied Chemistry.

HOLDINGS: Reports of biennial IUPAC conferences; IUPAC periodical, *Pure and Applied Chemistry*; *IUPAC Information Bulletin*.

PUBLICATIONS: Reports of delegations to IUPAC conferences.

INFORMATION SERVICES: Answers inquiries.

U.S. National Committee of the International Astronomical Union

1466 National Academy of Sciences--National
Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1237

AREAS OF INTEREST: International cooperation and collaboration in astronomical research.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals. Services are provided to qualified scientists on a time-available basis.

U.S. National Committee of the International Union of Crystallography

1467 National Academy of Sciences--National
Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1237

AREAS OF INTEREST: International cooperation and collaboration in crystallographic research.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals. Services are provided to qualified scientists on a time-available basis.

U.S. National Committee of the International Union of Pure and Applied Physics

1468 National Academy of Sciences--National
Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1237

AREAS OF INTEREST: International cooperation and collaboration in studies and research in all scientific aspects of pure and applied physics.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals. Services are provided to qualified scientists on a time-available basis.

U.S. National Committee of the International Union of Theoretical and Applied Mechanics

1469 National Academy of Sciences--National
Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1237

AREAS OF INTEREST: International cooperation and collaboration in studies and research in all scientific aspects of theoretical and applied mechanics.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals. Services are provided to qualified scientists on a time-available basis.

U.S. National Committee on Geology for the International Union of Geological Sciences

1470 Attn: Mr. William Thurston, Committee
Secretary
c/o U.S. Geological Survey
Washington, D.C. 20242
Tel: (202) 343-4186

AREAS OF INTEREST: Geology, geophysics, geochemistry, hydrology, cartography, surveying, and mapping, including all marine and terrestrial aspects; all branches of the main disciplines as they relate to the solid earth.

PUBLICATIONS: Informal reports and articles appearing in *Geotimes* (serial published by American Geological Institute).

INFORMATION SERVICES: The Committee Secretary answers inquiries within the limits of his time and sources.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

Office of Advanced Research and Technology

Ames Research Center Library

1471 Moffett Field, Calif. 94035
Tel: (415) 961-3312

AREAS OF INTEREST: Interplanetary probes; biological effects of space environment on earth organisms; aerospace medicine and biophysics; exobiology; high- and low-speed aerodynamics; guidance and control systems for manned spacecraft; midcourse navigation; terminal guidance; spacecraft design; gas physics; simulation techniques; wind tunnels; vertical and short takeoff (V/STOL) aircraft.

HOLDINGS: Books, journals, reports, patents, films, photos, maps, charts, unpublished data, microfiche.

INFORMATION SERVICES: Permits onsite reference by qualified Government agencies, their contractors, and colleges and universities.

Langley Research Center Technical Library

1472 Langley Station
Hampton, Va. 23365
Tel: (703) 827-2788 Ext. 4789

AREAS OF INTEREST: Vehicle configurations, materials, structures, and mechanics of flight; supersonic and hypersonic flight; lunar rendezvous and landings; aerothermodynamics, loads, and structural characteristics of vehicle systems; passive communications satellites; inflatable and erectable spacecraft and manned space stations; launch vehicles; recovery of space vehicles.

HOLDINGS: Books, journals, reports, microfiche, microfilm.

INFORMATION SERVICES: Permits onsite reference by qualified Government agencies and their contractors.

Lewis Research Center Library

1473 21000 Brookpark Rd.
Cleveland, Ohio 44135
Tel: (216) 433-4000 Ext. 419

AREAS OF INTEREST: Advanced propulsion and generation of power for space, including powerplant materials; engine wind-tunnel research; propulsion (liquid, solid, nuclear, electron); energy sources (solar cells, batteries, nuclear devices); turboelectric, thermoelectrical, and thermionic energy conversion systems; heat transfer; cryogenics; plasma and magnetohydrodynamics, meteoroid damage; gravity; effects of nuclear radiation on spacecraft materials.

HOLDINGS: Books, journals, reports, standards and specifications, microfiche, microfilm.

INFORMATION SERVICES: Permits onsite reference by qualified Government agencies and their contractors.

Office of Manned Space Flight

George C. Marshall Space Flight Center Technical Library

1474 Marshall Space Flight Center, Ala. 35812
Tel: (205) 453-1880

AREAS OF INTEREST: Aerospace sciences, especially launch and space transportation, vehicles, rocket engines, propellants, and propulsion; astronomy; space physics; materials and structures; flight operations of multistage vehicles; orbital rendezvous and checkout and repair systems; lunar payload logistic requirements and equipment; in-orbit launch support facilities and equipment.

HOLDINGS: Books, journals, reports, microfiche.

INFORMATION SERVICES: Provides library information services for Center personnel only; provides document services for qualified contractors.

John F. Kennedy Space Center Technical Library

1475 Kennedy Space Center, Fla. 32899
Tel: (305) 867-3562

AREAS OF INTEREST: Test, checkout, and launch of space vehicle systems; facilities and ground-support equipment for major launchings; manned lunar landings; tracking and data acquisition.

HOLDINGS: Books, reports, journals, standards and specifications, tapes, microfiche, microfilm.

INFORMATION SERVICES: Permits onsite reference by qualified Government agencies, their contractors, and others engaged in aerospace technology; provides computerized current and retrospective searches to authorized users.

Manned Spacecraft Center Technical Library

1476 Houston, Tex. 77058
Tel: (713) 483-4048

AREAS OF INTEREST: Development, testing, and operation of manned spacecraft; life, physical, and social sciences related to manned exploration of space; biomedical aspects of manned space flight; life-support systems; crew equipment for manned flight missions; lunar and space environments; astronaut training.

HOLDINGS: Books, journals, reports, maps, charts, standards and specifications, tapes, microfiche.

INFORMATION SERVICES: Permits onsite reference by qualified Government agencies and their contractors; provides computerized searches and selective dissemination of information services to authorized users.

Wallops Station Library

1477 Wallops Island, Va. 23337
Tel: (703) 824-3411 Ext. 389

AREAS OF INTEREST: Launch facilities for suborbital, orbital, and space probe experiments; data collecting and processing techniques; free-fall instrumented payloads; payload models (of manned space capsules or sounding devices).

HOLDINGS: Books, journals, reports, microfiche.

INFORMATION SERVICES: Permits onsite reference by qualified Government agencies, their contractors, and others engaged in aerospace technology.

Office of Public Affairs

Educational Programs Division

1478 National Aeronautics and Space
Administration
300 Seventh St. SW.
Washington, D.C. 20546
Tel: (202) 963-3125

AREAS OF INTEREST: Scientific, technological, social, economic, and political implications of man's peaceful utilization of space; education aspects of satellites, space exploration, and manned space flights; teaching aids.

HOLDINGS: General-interest films for television or other use; technical films of interest to engineers, scientists, students, and educators; taped radio programs; education exhibits, ranging from wall displays to a spacemobile lecture/demonstration unit.

PUBLICATIONS: Numerous informational/educational publications about NASA's programs and their results, directed to the upper elementary junior high reading level. These include *NASA Educational Publications* (a current listing of available booklets and pamphlets) and *NASA Film List* (a list of films available for loan).

INFORMATION SERVICES: Answers educational inquiries; provides publications and speaker services; lends films and tapes without charge to organizations; provides consultation service to elementary and high school curriculum groups and to college and school district workshops for teachers in aerospace education; conducts a number of youth programs such as the Youth Science Congresses; provides space science lectures for school assemblies and classroom lessons. Inquiries regarding these and other educational services should be directed to the Division at the same address.

Public Information Division

1479 National Aeronautics and Space
Administration
400 Maryland Ave. SW.
Washington, D.C. 20546
Tel: (202) 962-1736

AREAS OF INTEREST: Aerospace science and technology.

PUBLICATIONS: *Space Activities Summaries* (issued after NASA launchings); *Space Sheet* (semimonthly); news releases.

INFORMATION SERVICES: This Division prepares news releases, supplies photographs, and lends slides and transparencies to news media. It handles all requests for nontechnical information on NASA activities. (Requests for technical information are referred to the Scientific and Technical Information Division or to the Technology Utilization Division.)

Office of Space Science and Applications

Goddard Space Flight Center Library

1480 Goddard Space Flight Center
Greenbelt, Md. 20771
Tel: (301) 474-6244

AREAS OF INTEREST: Unmanned satellite probes, including meteorological and communications satellites; orbiting observatories; worldwide tracking and data acquisition; astronomy, mathematics, physics, electronics, and the space sciences.

HOLDINGS: Books, journals, technical reports, microfiche, specifications and standards.

INFORMATION SERVICES: Permits onsite reference by research workers by special permission of the librarian.

National Space Science Data Center

1481 Goddard Space Flight Center
Greenbelt, Md. 20771
Tel: (301) 982-6695

AREAS OF INTEREST: Space science, including astronomy, solar physics, particles and fields, ionospheres and radio physics, planetary atmospheres, and planetology.

HOLDINGS: Scientific photographs; reduced data on microfilm, tabulations, and magnetic tape; data compilations; data catalogs.

INFORMATION SERVICES: Performs analyses and provides data for scientific purposes.

Office of Technology Utilization

Scientific and Technical Information Division

1482 National Aeronautics and Space
Administration
300 Seventh St. SW.
Washington, D.C. 20546
Tel: (202) 962-3648

AREAS OF INTEREST: Aerospace science and technology; worldwide aerospace information (acquisition, processing, reporting, dissemination); high-speed information retrieval; aerospace medicine; effects of space environment on man and other primates; instrumentation to measure the physiological and psychological behavior of human beings and other primates under imposed forces or in engineered environments; flight and ground crew safety, protection, survival, and escape; closed ecological systems; extra-vehicular activity; illnesses and diseases caused by flight conditions; bacterial adaptation; behavioral effects of rotation and acceleration on living organisms; biological effects of radiation; cosmobiology; exobiology; decontamination.

PUBLICATIONS: The Division produces six technical publication series: *Technical Reports*; *Technical Notes*; *Technical Memorandums*; *Contractor Reports*; *Technical Translations*; and *Special Publications* (conference proceedings, handbooks, data compilations, continuing bibliographies on aerospace subjects of current interest, etc.). The Division is also responsible for four announcement journals, as follows. *Scientific and Technical Aerospace Reports* (*STAR*) is a semimonthly abstracting and indexing journal covering worldwide aerospace report literature. By arrangement between NASA and the American Institute of Aeronautics and Astronautics, the AIAA publication *International Aerospace Abstracts* is issued in coordination with *STAR*, covering books and scientific and trade journals worldwide to complement *STAR*'s report coverage. The *Reliability Abstracts and Technical Reviews* covers the report and published literature on the theory and practice of reliability as applied to aerospace. *Computer Program Abstracts* lists documented computer programs developed by NASA, DoD, and AEC. A current-awareness service, *Selected Current Aerospace Notices* (SCAN), provides notifications of aerospace documents under approximately 200 topics.

INFORMATION SERVICES: NASA-sponsored reports are provided on initial distribution without charge to NASA offices, centers, contractors, subcontractors, grantees, and consultants; to selected libraries; to U.S. Government agencies and their contractors; to other organizations participating with NASA in aerospace programs; and to foreign organizations and governments that exchange publications with NASA. Others may buy paper or microfiche copies of NASA-sponsored documents and non-copyrighted foreign documents from such sales agencies as the Clearinghouse for Federal Scientific and Technical Information, Springfield, Va. 22151, and the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

HEADQUARTERS LIBRARY

1483 National Aeronautics and Space
Administration

600 Independence Ave. SW.
Washington, D.C. 20546
Tel: (202) 963-7377

AREAS OF INTEREST: Aerodynamics; aircraft; auxiliary systems; biosciences; biotechnology; communications; combustion; computers; electronics; fluid mechanics; information sciences; management; masers and lasers; materials; meteorology; physics; space sciences; space vehicles.

HOLDINGS: Books, journals, reports, microfiche, microfilm; complete files of formal series documents issued by the agency and its predecessor organization, the National Advisory Committee for Aeronautics (NACA).

PUBLICATIONS: *Headquarters Library Notes* (biweekly).

INFORMATION SERVICES: Permits onsite reference by qualified Government agencies, their contractors, and others engaged in aerospace technology.

Technology Utilization Division

1484 National Aeronautics and Space Administration
300 Seventh St. SW.
Washington, D.C. 20546
Tel: (202) 963-7925

AREAS OF INTEREST: Innovations in devices, materials, processes, concepts, and techniques developed by NASA laboratories and contractors; application of aerospace-generated science and technology outside the aerospace community.

PUBLICATIONS: *Tech Briefs* and *TU Compilations* (brief announcements of recent innovations); *Technology Utilization Reports*; *Technology Surveys*.

INFORMATION SERVICES: As the responsible office for promoting widespread utilization outside the aerospace community of technological innovations resulting from NASA programs, the Division welcomes inquiries from industry, practicing engineers, and other interested organizations and individuals regarding technological innovations. It sponsors meetings and symposia and arranges conferences at appropriate NASA field installations to discuss applications of NASA research and development results to specific problems.

Branch Offices. Technology Utilization Offices are located at the following NASA field centers:

Ames Research Center
Mail Stop N-240-2
Moffett Field
Mountain View, Calif. 94035
Tel: (415) 961-1111 Ext. 2301

Flight Research Center
Box 273
Edwards, Calif. 93523
Tel: (805) 258-3311 Ext. 500

Goddard Space Flight Center
Code 206
Greenbelt, Md. 20771
Tel: (301) 474-6242

NASA Pasadena Office (Jet Propulsion Laboratory)
4800 Oak Grove Dr.
Pasadena, Calif. 91103
Tel: (213) 354-6420

John F. Kennedy Space Center
Code AD-PAT
Kennedy Space Center, Fla. 32899
Tel: (305) 867-2544

Langley Research Center
Langley Station
Hampton, Va. 23365
Tel: (703) 722-7961

Lewis Research Center
21000 Brookpark Rd.
Cleveland, Ohio 44135
Tel: (216) 433-6832

Manned Spacecraft Center
Code BM-7
Houston, Tex. 77001
Tel: (713) 483-3809

Geo. C. Marshall Space Flight Center
Huntsville, Ala. 35812
Tel: (205) 876-1514

Space Nuclear Propulsion Office
Technology Utilization Branch
Mail Stop F-309/U.S. AEC Bldg.
Germantown, Md. 20545
Tel: (301) 973-3354

Wallops Station
Building E-108
Wallops Island, Va. 23337
Tel: (703) 824-3411 Ext. 536

Regional Dissemination Centers: Six Regional Dissemination Centers, sponsored by the Technology Utilization Division, serve nonaerospace users on a fee paying basis in their geographical areas. These Centers are described under the name of the host university or agency, as follows:

Aerospace Research Applications Center see Indiana University

Knowledge Availability Systems Center see University of Pittsburgh

Science and Technology Research Center see North Carolina State Board of Science and Technology

New England Research Application Center see University of Connecticut

Technology Application Center see University of New Mexico

Western Research Application Center see University of Southern California

NATIONAL AERONAUTICS AND SPACE COUNCIL

see Executive Office of the President

NATIONAL AGRICULTURAL CHEMICALS ASSOCIATION

1485 1155 15th St. NW.
Washington, D.C. 20005
Tel: (202) 296-1585

AREAS OF INTEREST: Agricultural chemistry; pesticides; toxicology.

HOLDINGS: Books and periodicals (for internal use only).

PUBLICATIONS: *NAC News and Pesticide Review* (bimonthly, with an annual issue carrying FDA tolerances).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

NATIONAL AGRICULTURAL LIBRARY

see Agriculture, Department of

NATIONAL AIR AND SPACE MUSEUM

see Smithsonian Institution

NATIONAL AIR TRANSPORTATION CONFERENCES

1486 1156 15th St. NW.
Washington, D.C. 20005
Tel: (202) 293-2550

AREAS OF INTEREST: Air taxi/charter service (airplanes and helicopters that provide on-demand service to any community having an airport); commuter air carrier service (scheduled light airplane service); air cargo/mail service (light airplane companies carrying nonsubsidy mail, cargo, and air express).

PUBLICATIONS: *NATC News* (monthly).

INFORMATION SERVICES: Answers inquiries.

NATC is a trade association of U.S. air carriers flying light aircraft.

NATIONAL ASPHALT PAVEMENT ASSOCIATION

1487 6715 Kenilworth Ave.
Riverdale, Md. 20840
Tel: (301) 779-4880

AREAS OF INTEREST: Asphalt pavement, including development of quality improvement techniques, statistical analysis, systems analysis, various phases of research, and promotion.

HOLDINGS: Collection of periodicals and reports.

PUBLICATIONS: *Paving Forum* (quarterly, free on request to qualified subscribers); *NAPA News* (monthly, restricted to members); directories, reports.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, and literature-searching services; makes referrals.

NATIONAL ASSOCIATION OF CONSERVATION DISTRICTS

1488 1025 Vermont Ave. NW.
Washington, D.C. 20005
Tel: (202) 347-5995

AREAS OF INTEREST: Soil conservation; water conservation; natural resource development; environmental affairs.

PUBLICATIONS: *Tuesday Letter* (weekly); legislative reports, pamphlets, brochures.

INFORMATION SERVICES: Answers inquiries relating to natural resource programs, water development, and watershed projects conducted by the 3,000 local soil, water, and resource conservation districts and their State associations in the 50 States, Puerto Rico, and the Virgin Islands. Historical questions in this field may be referred to the Davis Conservation Library, Conservation Districts Foundation, Inc., League City, Tex. 77573.

NATIONAL ASSOCIATION OF CORROSION ENGINEERS

1489 2400 West Loop South
Houston, Tex. 77027
Tel: (713) 622-8980

AREAS OF INTEREST: Corrosion problems pertaining to water desalination, waste water treatment, recirculation of cooling water, and all aspects of engineering involving metallic and nonmetallic surfaces exposed to water and all corrosive environments.

HOLDINGS: 500 books; 60,000 abstracts.

PUBLICATIONS: *Corrosion* and *Materials Protection* (both monthly journals); *Corrosion Abstracts* (bimonthly); reports, proceedings, books, bibliographies.

INFORMATION SERVICES: Provides literature-searching and duplication services for fee; permits onsite use of literature collection.

NATIONAL ASSOCIATION OF COUNTY ENGINEERS

1490 1001 Connecticut Ave. NW., Suite 522
Washington, D.C. 20036
Tel: (202) 628-4701

AREAS OF INTEREST: County road planning, construction, maintenance, and management; county-level engineering.

PUBLICATIONS: Technical reports, bibliographies, pamphlets.

INFORMATION SERVICES: Answers inquiries.

NATIONAL ASSOCIATION OF DISTRIBUTORS AND DEALERS OF STRUCTURAL CLAY PRODUCTS

1491 1520 18th St. NW.
Washington, D.C. 20036
Tel: (202) 483-4200

AREAS OF INTEREST: All areas of sales, product distribution, and related parts of the structural clay products industry.

HOLDINGS: Periodicals, data compilations, photos, technical reports, newspapers, preprints, posters, press releases, leaflets.

PUBLICATIONS: Newsletter, press releases.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides short lists of literature citations in response to specific inquiries; permits onsite use of collection.

NATIONAL ASSOCIATION OF ENGINE AND BOAT MANUFACTURERS

1492 537 Steamboat Rd.
Greenwich, Conn. 06830
Tel: (203) 661-4800

AREAS OF INTEREST: Small craft construction, servicing, marketing, and safety; recreational boating; marinas.

HOLDINGS: 2,000 books; 1,900 journals; 200 reports; 100 pamphlets; 3,400 photos; 110 microforms; 110 maps and charts; 110 posters and display materials; 150 graphs and tables; 110 standards and specifications; reviews, newsletters, reprints.

PUBLICATIONS: Books, articles, motion pictures, technical reports, pamphlets, reprints, press releases.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and bibliographic services; permits onsite use of literature collection.

NATIONAL ASSOCIATION OF HOUSING AND REDEVELOPMENT OFFICIALS

1493 Watergate Bldg., Room 404
2600 Virginia Ave. NW.
Washington, D.C. 20037
Tel: (202) 333-2020

AREAS OF INTEREST: Public housing, urban renewal, housing codes, and other aspects of community development.

HOLDINGS: About 12,000 books, pamphlets, reports, and documents (about 3,500 cataloged), with strength in local housing and renewal agency reports and studies; correspondence of the Association dating from 1933; 180 linear feet of vertical files, including some newspaper and periodical clippings.

PUBLICATIONS: *Journal of Housing* (11 issues a year); *NAHRO Newsletter* (bimonthly); Housing, Urban Renewal, and Codes Agencies directories (approximately biannual); special studies and reports. A publications price list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and literature-searching services; furnishes existing data tabulations. Services are primarily for members, but nonmembers are accommodated as time permits. Onsite use of the collection is limited to staff members.

NATIONAL ASSOCIATION OF INSTITUTIONAL LAUNDRY MANAGERS

1494 P.O. Box 11486
Philadelphia, Pa. 19111
Tel: (215) 379-8675

AREAS OF INTEREST: Operation and management of institutional laundries; chemistry of detergents and fibers; standards for water purity needed for laundering; water acidity; water treatment prior to its use in laundering.

HOLDINGS: 290 technical reports; 120 periodicals; 450 pamphlets; 125 maps and charts; 125 graphs and tables; 75 data compilations.

PUBLICATIONS: *NAILM News and Bulletin* (monthly); certification laundry textbooks (for members only); leaflets, brochures, technical reports, graphs and tables, posters.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and limited literature-searching services; provides laundry wash testing services; permits onsite reference.

NATIONAL ASSOCIATION OF METAL FINISHERS

1495 248 Lorraine Ave.
Upper Montclair, N.J. 07043
Tel: (201) 746-8933

AREAS OF INTEREST: Electroplating and metal finishing, relating to operating costs; industrial management.

HOLDINGS: 120 standards and specifications; pamphlets, data.

PUBLICATIONS: *Finishers' Management* (monthly); *NAMF Management Manual* (periodic); newsletters, directory, pamphlets, abstracts, indexes, posters, and other display materials.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; permits onsite use of collection.

NATIONAL ASSOCIATION OF METAL NAME PLATE MANUFACTURERS, INC.

1496 1000 Vermont Ave. NW.
Washington, D.C. 20005
Tel: (202) 628-4634

AREAS OF INTEREST: Metal name plate manufacture, including etching, lithographing, anodizing, stamping, embossing, silk screening, plating, coining, die casting, pantograph engraving, foil, Mylar, and vinyl processing, roll embossing, photo engraving, and heat sealing.

HOLDINGS: Small collection of books.

PUBLICATIONS: Specifications, membership directory.

INFORMATION SERVICES: Answers inquiries; makes referrals.

NATIONAL ASSOCIATION OF MOTOR BUS OWNERS

1497 1025 Connecticut Ave. NW.
Washington, D.C. 20036
Tel: (202) 293-5890

AREAS OF INTEREST: Intercity motor bus transportation; highway development.

HOLDINGS: 350 books; 300 periodicals; 650 reports; 650 graphs and tables; 1,400 pamphlets; standards and specifications, data.

PUBLICATIONS: *Bus Facts* (annual); *Motor Carrier Safety Regulations--Bus Manual*; *State Taxes and Regulations on Intercity Buses* (biannual); pamphlets.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; permits onsite use of collection.

NATIONAL ASSOCIATION OF OIL HEAT SERVICE MANAGERS

1498 c/o Alvin Hollis & Co.
1 Hollis St.
South Weymouth, Mass. 02190
Tel: (617) 335-2100

AREAS OF INTEREST: Oil heating.

HOLDINGS: Books, journals, reports.

PUBLICATIONS: *Oil Heat* and *Fuel Oil News* (both monthly); reports, proceedings, standards and specifications.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and consulting services.

NATIONAL ASSOCIATION OF PHOTOGRAPHIC MANUFACTURERS, INC.

1499 600 Mamaroneck Ave.
Harrison, N.Y. 10528
Tel: (914) 698-7603

AREAS OF INTEREST: Manufacture of image formation equipment, sensitized materials, and chemicals.

HOLDINGS: Technical reports, standards and specifications, reviews, periodicals, reprints, publication lists, clippings.

PUBLICATIONS: Newsletter (disseminated to members only), pamphlets, press releases.

INFORMATION SERVICES: Answers inquiries of a general industry nature (technical inquiries are usually referred to member companies for reply); permits onsite use of collection. A limited amount of the Association's printed material is available for public dissemination.

NATIONAL ASSOCIATION OF PHYSICAL PLANT ADMINISTRATORS OF UNIVERSITIES AND COLLEGES

1500 c/o John H. Sweitzer
Secretary-Treasurer, NAPPA
Earlham College
Richmond, Ind. 47374
Tel: (317) 962-6561

AREAS OF INTEREST: Planning, programming, and construction of college and university buildings; maintenance and operations of college and university physical facilities.

HOLDINGS: 230 papers presented at national or regional meetings.

PUBLICATIONS: Transcription of annual minutes, newsletter.

INFORMATION SERVICES: Answers inquiries; makes referrals; provide consulting and limited literature-searching services; prepares analyses; permits onsite use of collection.

NATIONAL ASSOCIATION OF POWER ENGINEERS, INC.

1501 176 West Adams St.
Chicago, Ill. 60603
Tel: (312) 372-0836

AREAS OF INTEREST: Qualifications of power (operating, stationary) engineers; training programs for power engineers; licensure requirements.

HOLDINGS: Books, data.

PUBLICATIONS: *National Engineer* (monthly); reports, self-study guides.

INFORMATION SERVICES: Answers inquiries.

NATIONAL ASSOCIATION OF RELAY MANUFACTURERS

1502 P.O. Box 1649
Scottsdale, Ariz. 85252
Tel: (602) 945-6191

AREAS OF INTEREST: Electromechanical, reed, thermal, and hybrid relays; standardization of technical ratings, nomenclature, and testing methods.

HOLDINGS: Reports, proceedings, standards and specifications.

INFORMATION SERVICES: Answers inquiries.

NATIONAL ASSOCIATION OF RIVER AND HARBOR CONTRACTORS

1503 536 Washington Bldg.
Washington, D.C. 20005
Tel: (202) 783-2470

AREAS OF INTEREST: Channel dredging and waterfront construction, e.g., jetties, dykes, and groins, including work on harbors, canals, and other waterways; beach erosion; flood control; water pollution; water resources; watersheds.

HOLDINGS: Technical reference works, trade journals and other periodicals, file material.

PUBLICATIONS: Monthly news bulletin, annual report, membership lists, and technical material (all for members' use only); *Waterways of the United States* (1963).

INFORMATION SERVICES: Answers inquiries; makes referrals.

NATIONAL ASSOCIATION OF SECONDARY MATERIAL INDUSTRIES, INC.

1504 330 Madison Ave.
New York, N.Y. 10017
Tel: (212) 867-7330

AREAS OF INTEREST: Secondary materials industry throughout the United States and Canada, including the following areas of operation: nonferrous scrap metals (dealers, smelters, refiners, ingot makers); paper stock; textiles; rubber and plastics; and importers and exporters.

HOLDINGS: Small working collection of books and reports.

PUBLICATIONS: *Nonferrous Scrap Metal Industry*; *Industrial Profile and Cost Factors in Nonferrous Scrap Metal Processing*; *The Secondary Material Industries and Environmental Problems*; reports, specifications.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services; makes referrals.

NATIONAL ASSOCIATION OF WATCH AND CLOCK COLLECTORS, INC.

1505 P.O. Box 33
Columbia, Pa. 17512

Location:
American Bank Bldg.
Columbia, Pa.
Tel: (717) 684-8261

AREAS OF INTEREST: All phases of horologiana and allied arts; antique clocks and watches; preservation of horological items; repair of timepieces.

HOLDINGS: A collection of rare as well as recent books, maintained at the Franklin Institute in Philadelphia, Pa.; a loan library at the headquarters office in Columbia, Pa.

PUBLICATIONS: *Bulletin* (5 times a year; reprints of early volumes are available in hardback form); *Mart* (6 times a year, listing horological items for sale or exchange); membership roster (annual).

INFORMATION SERVICES: Answers inquiries and makes referrals for members and news media. Photocopy service is available.

Facilities include an IBM System/3 computer.

NATIONAL AUTO AND TRUCK WRECKERS ASSOCIATION

1506 18 Second Ave.
San Mateo, Calif. 94401
Tel: (415) 342-3892

AREAS OF INTEREST: Auto salvage and dismantling; scrap iron; air pollution; solid waste disposal.

HOLDINGS: Still photos, slides, newsletters, pamphlets, press releases.

PUBLICATIONS: *NATWA Digest*.

INFORMATION SERVICES: Answers inquiries; provides consulting services to the industry; makes referrals.

NATIONAL AUTOMOTIVE RADIATOR SERVICE ASSOCIATION

1507 8586 Macomb Rd.
Grosse Ile, Mich. 48138
Tel: (313) 675-2660

AREAS OF INTEREST: Automotive radiators and air conditioners.

PUBLICATIONS: *Automotive Cooling Journal* (bimonthly); newsletter.

INFORMATION SERVICES: Answers inquiries; makes referrals.

NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS

1508 1155 North High St.
Columbus, Ohio 43201
Tel: (614) 299-3032

AREAS OF INTEREST: Mechanical engineering, welding engineering, and industrial engineering as applied to safety of boilers, unfired pressure vessels, and nuclear vessels.

HOLDINGS: 5,000,000 manufacturers' data reports of boilers and unfired pressure vessels on microfilm, plus 2,500,000 manufacturers' data reports in original form; boiler and pressure vessel laws of States and Canadian provinces.

PUBLICATIONS: *National Board Bulletin* (quarterly); *Manufacturers Directory*; *Proceedings of Annual Meeting*; *National Board Inspection Code*; *Rules for Boiler Blowoff Equipment*; *Relieving Capacities of Safety Valves and Relief Valves* for steam, air, and gas service.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides copies of manufacturers' data reports for boilers and pressure vessels upon request.

NATIONAL BUILDERS' HARDWARE ASSOCIATION

1509 1290 Avenue of the Americas
New York, N.Y. 10019
Tel: (212) 586-7760

AREAS OF INTEREST: Builders' hardware (locks, latches, hinges, metal and hollow core doors); Government and industrial standards; marketing techniques and practices.

HOLDINGS: Books, journals, slides, reports, nonprinted material.

PUBLICATIONS: *NBHA Reporter* (bimonthly); *Doors and Hardware* (monthly); data handbooks, reports.

INFORMATION SERVICES: Answers inquiries; provides reference services; conducts management seminars and statistical surveys; lends printed material and slides; permits onsite use of collection.

NATIONAL BUREAU OF STANDARDS

see Commerce, Department of

NATIONAL BURGLAR AND FIRE ALARM ASSOCIATION, INC.

1510 47 Woodland Ave.
East Orange, N.J. 07017
Tel: (201) 675-5200

AREAS OF INTEREST: Burglar alarm systems; intrusion detection systems; automatic and manual fire alarm systems; sprinkler supervisory systems; industrial process supervisory systems; hold-up alarm systems.

PUBLICATIONS: *Signal* (monthly).

INFORMATION SERVICES: Answers inquiries; makes referrals.

NATIONAL BUSINESS AIRCRAFT ASSOCIATION, INC.

1511 401 Pennsylvania Bldg.
Washington, D.C. 20004
Tel: (202) 783-9000

AREAS OF INTEREST: The Association serves corporations operating aircraft as an aid to the conduct of their businesses by providing a mechanism for the interchange of technical and management information, by presenting their needs and interests to regulatory and legislative bodies, and by seeking a broader public understanding of their accomplishments and needs.

HOLDINGS: Results of surveys of members and of studies; reprints.

PUBLICATIONS: NBAA*News Report* (monthly); *Business Flying* (annual statistical report); *Recommended Standards Manual*; *Corporate Aviation Management Guidelines*; special reports and bulletins.

INFORMATION SERVICES: Answers inquiries; makes referrals; disseminates pertinent publications of the Association in connection with replies to inquiries.

NATIONAL CABLE TELEVISION ASSOCIATION, INC.

1512 1634 Eye St. NW.
Washington, D.C. 20006
Tel: (202) 347-3440

AREAS OF INTEREST: Long line radio frequency television distribution by coaxial cable, including theory and operating practice; common carrier and private service microwave systems; program originations by CATV systems, of an educational, public service, and commercial nature.

HOLDINGS: Books, newsletters, pamphlets.

PUBLICATIONS: *Membership Bulletin* (weekly newsletter); *Cable TV Lines* (quarterly newsletter); *CATV: A Response to Public Demand* (16mm sound-color film); *The Wonderful, Colorful World of Cable TV* (booklet); various promotional packages, including ad mats, repro proofs, etc. for seasonal and year-round promotional campaigns; spot radio commercials about cable television; series of 58 four-color slides explaining the fundamentals of cable television and its contribution to the economy of many communities.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite use of collection.

NATIONAL CAPITAL PLANNING COMMISSION LIBRARY

1513 726 Jackson Pl. NW.
Washington, D.C. 20576
Tel: (202) 382-2951

AREAS OF INTEREST: Housing; Federal and urban planning, including related historical documents; city, community, and regional planning; architectural and park planning in the District of Columbia; urban renewal; zoning; transportation; bridges and highways; art; social science.

HOLDINGS: 15,000 items, including historical and legal documents, Congressional hearings and reports, Department of Commerce statistical abstracts for the planning of D.C. Metropolitan area, bibliographies, reprints, a photo file of the D.C. Metropolitan area, and a newspaper clipping file.

INFORMATION SERVICES: Answers inquiries; provides bibliographic and reference services; makes interlibrary loans; permits onsite reference.

NATIONAL CASTINGS COUNCIL

1514 Penton Bldg., Room 522
1213 West 3d St.
Cleveland, Ohio 44113
Tel: (216) 696-7000

AREAS OF INTEREST: Castings; foundries, foundry work, foundry equipment, and foundry education; metallurgy.

INFORMATION SERVICES: Makes referrals.

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

High Altitude Observatory Library

1515 National Center for Atmospheric Research
P.O. Box 1558
Boulder, Colo. 80302

Location:

Astrogeophysics Bldg.
University of Colorado Campus
900 24th St.
Boulder, Colo.
Tel: (303) 444-1550

AREAS OF INTEREST: Astronomy; astrophysics; solar physics; meteorology; radio astronomy; theoretical physics; electronics; geophysics.

HOLDINGS: 3,500 books; 10,000 reports and reprints; 340 journals.

INFORMATION SERVICES: Makes interlibrary loans; provides reference and duplication services only to scientific personnel and graduate students of the University of Colorado and associated organizations.

Mesa Library

1516 National Center for Atmospheric Research
P.O. Box 1470
Boulder, Colo. 80303

Location:

Table Mesa Dr.
Boulder, Colo.
Tel: (303) 444-5151

AREAS OF INTEREST: Meteorology and relevant aspects of mathematics, physics, chemistry, geophysics, astrophysics, astronautics, aeronautics, electronics, biochemistry, geography, nuclear science, oceanography, limnology, metrology, and thermodynamics.

HOLDINGS: 12,000 books; 25,000 reports; 775 journals; patents.

PUBLICATIONS: Accessions list (bimonthly).

INFORMATION SERVICES: Provides reference services; provides consulting services on individual basis.

NATIONAL CLAY PIPE INSTITUTE

1517 P.O. Box 310
Crystal Lake, Ill. 60014

Location:

350 West Terra Cotta Ave.
Crystal Lake, Ill.
Tel: (815) 459-3330

AREAS OF INTEREST: Sanitation and stream pollution control; sewer and drainage systems.

HOLDINGS: 5,000 books; reports, pamphlets, standards and specifications, newsletters, preprints, reprints, publication lists, graphs, tables, maps, charts, slides, photos, clippings, publication lists, data.

PUBLICATIONS: Reports, manuals, standards and specifications, monographs, reprints, bibliographies, pamphlets, tapes, motion pictures, photos.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides sanitary engineering advisory services; lends motion pictures.

NATIONAL COAL ASSOCIATION

1518 Coal Bldg.
1130 17th St. NW.
Washington, D.C. 20036
Tel: (202) 628-4322

AREAS OF INTEREST: Use of bituminous coal in any application; coal production, transportation, economics, legislation, standards, and engineering technology; air pollution control; delivery and distribution of electric power.

HOLDINGS: Books, journals, reports, data.

PUBLICATIONS: *Coal News* (weekly); *Coal Research* (quarterly); *Foreign News Notes* (semimonthly); *Letter of the Law* (semimonthly); *Steam-Electric Plant Factors* (annual); *World Coal Trade* (annual); *Bituminous Coal Data* (annual); educational booklets, reprints of articles and speeches, numerous engineering and technical publications, films. A publications list is available.

INFORMATION SERVICES: Answers brief technical inquiries free; provides document loans and photocopying services at cost; provides limited consulting services; permits onsite use of literature collection.

NATIONAL CONFECTIONERS ASSOCIATION

1519 36 South Wabash Ave.
Chicago, Ill. 60603
Tel: (312) 372-1492

AREAS OF INTEREST: Candy manufacturing technology; scientific research; plant sanitation; education; packaging and labeling regulations; trade names; import competition; legislation; marketing; statistics; data processing; financial operations; public relations.

HOLDINGS: Library of books on candy technology; marketing information; annual confectionery sales and distribution reports; candy industry journals; 60,000 trade names; research studies.

PUBLICATIONS: *ConfectioNEWS* (monthly newsletter); "The Confectionery Industry Speaks" (annual survey of candy, chocolate, and chewing gum manufacturers); annual financial operations survey of candy manufacturing firms; bulletins on food and drug regulations; import and export statistics; trade mark registrations; credit reports on candy manufacturers' customers.

INFORMATION SERVICES: Answers inquiries (technical inquiries should be addressed to Director of Research and Education); makes referrals; provides consulting services; sponsors research programs, annual three-week course in candy technology, marketing and financial operations seminars, and annual convention and exposition of candy making equipment and services.

NATIONAL CONSTRUCTORS ASSOCIATION

1520 1133 15th St. NW.
Washington, D.C. 20005
Tel: (202) 393-2757

AREAS OF INTEREST: Design and construction of oil refineries, chemical plants, steel mills, power plants, and other industrial facilities; industrial relations; safety; international affairs; legislation; tax; insurance.

HOLDINGS: Surveys (job practices, working conditions, etc.); salary studies covering nonmanual employees at domestic and international locations.

PUBLICATIONS: Newsletter (bimonthly), directory, reports, bulletins.

INFORMATION SERVICES: Answers inquiries; provides information on the specialized problems connected with performance of domestic and foreign construction work by American engineering constructors.

NATIONAL COTTON BATTING INSTITUTE

1521 P.O. Box 12285
Memphis, Tenn. 38112

Location:
1918 North Parkway
Memphis, Tenn.
Tel: (901) 276-2783

AREAS OF INTEREST: Cotton batting.

HOLDINGS: Films, photos, slides, magnetic tapes, reprints, press releases, clippings.

PUBLICATIONS: Films, photos, press releases.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference.

NATIONAL COTTON COUNCIL OF AMERICA

1522 Box 12285
Memphis, Tenn. 38112

Location:
1918 North Parkway
Memphis, Tenn.
Tel: (901) 276-2783

AREAS OF INTEREST: Cotton and related aspects of physiology, pathology, biochemistry, genetics, entomology, agronomy, fiber chemistry, polymer chemistry, knitting, chemical finishing, fire retardance, durable press, fiber quality measurements, mechanization, production economics, and marketing.

HOLDINGS: Small collection of books, periodicals, and reports.

PUBLICATIONS: *Cotton Research Notes* (irregular); summary proceedings of technical conferences; reports.

INFORMATION SERVICES: Answers inquiries; provides reference and limited consulting services.

NATIONAL COUNCIL OF ENGINEERING EXAMINERS

1523 P.O. Box 752
Clemson, S.C. 29631
Tel: (803) 654-2246

AREAS OF INTEREST: Registration of engineers; uniform laws and procedures for registration; qualifications for registration; professional development of engineers.

PUBLICATIONS: *Registration Bulletin* (quarterly); *Proceedings and Year Book* (annual); *Committee on National Engineering Certification* (annual); *Synopsis of State Registration Laws and Procedures* (about every 3 years); *The Practice of Engineering in the United States, General Requirements and Addresses of State Boards* (annual).

INFORMATION SERVICES: Answers inquiries.

NATIONAL COUNCIL OF THE PAPER INDUSTRY FOR AIR AND STREAM IMPROVEMENT, INC.

1524 103 Park Ave.
New York, N.Y. 10017
Tel: (212) 889-5416

AREAS OF INTEREST: Environmental control and pollution abatement by the pulp, paper, and paperboard industries, focused on and including air, water, and solids handling and disposal.

PUBLICATIONS: *Monthly Bulletin*; *Regulatory Review*; *Technical Bulletin* (irregular); annual report to members.

INFORMATION SERVICES: Answers inquiries.

NATIONAL COUNCIL ON MARINE RESOURCES AND ENGINEERING DEVELOPMENT

see also Executive Office of the President

Committee on Marine Research, Education, and Facilities

1525 Building 159E, Room 476
Washington Navy Yard
Washington, D.C. 20390
Tel: (202) 693-3464

AREAS OF INTEREST: Marine geology and biology; physical and chemical oceanography; ocean engineering; education and training.

PUBLICATIONS: *Scientific Manpower in Oceanography*, *Undersea Research Vehicles*, *University Curricula in the Marine Sciences*, and other documents in the Committee's series.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and consulting services.

NATIONAL COUNCIL ON RADIATION PROTECTION AND MEASUREMENTS (NCRP)

1526 4201 Connecticut Ave. NW., Suite 402
Washington, D.C. 20008
Tel: (202) 363-6644

AREAS OF INTEREST: Radiation protection and measurement, including basic radiation protection criteria and standards; maximum permissible dose equivalents for the population and radiation workers; maximum permissible concentrations of radionuclides that may be inhaled or ingested by humans; maximum permissible body burdens; dosimetry models for internally deposited radionuclides; medical, dental, and veterinary radiation protection (equipment design and use and structural shielding design); protection against electrons and neutrons; safe handling of radioactive materials; radiation monitoring methods and instruments; incineration of radioactive wastes; precautions in the management of patients receiving therapeutic doses of radionuclides and safe handling of bodies containing radioactive materials; permissible exposure to radiation in an emergency (civil defense and accidents); radiation protection in educational institutions; shielding for particle accelerators; radioactive nucleic acids and precursors; specification of radium substitutes; radiation exposure from consumer goods; measurement of radioactivity, exposure, absorbed dose, stopping powers, and neutron flux and spectra; high energy X-ray dosimetry; relative biological effectiveness (RBE) and quality factor (QF); radiation quantities, units, and standards.

HOLDINGS: Books, reports, periodicals, reviews, bibliographies.

PUBLICATIONS: *NCRP Reports*; *NCRP Statements*; *NCRP News* (published by NCRP Publications, P.O. Box 4867, Washington, D.C.).

INFORMATION SERVICES: Answers inquiries; makes referrals.

NATIONAL CRUSHED STONE ASSOCIATION

1527 1415 Elliot Pl. NW.
Washington, D.C. 20007
Tel: (202) 333-1536

AREAS OF INTEREST: Crushed stone, its production, marketing, and uses; engineering research on stone and stone products; industry representation on national technical and legislative committees and societies; development of factual data on the merits of crushed stone when used as road bases, aggregate for concrete or bituminous concrete, rip rap, filter media, railroad ballast, and for other purposes.

HOLDINGS: Reports, engineering data, specimens, films.

PUBLICATIONS: Engineering reports and bulletins, promotional publications and manuals.

INFORMATION SERVICES: Provides consulting services to member companies; conducts seminars, short courses, and training sessions at annual conventions; disseminates informational publications to users and potential users of crushed stone.

NATIONAL DEFENSE TRANSPORTATION ASSOCIATION

1528 1612 K St. NW., Suite 706
Washington, D.C. 20006
Tel: (202) 347-3530

AREAS OF INTEREST: Transportation and logistics generally, with emphasis on national defense transportation; emergency transportation planning, procedures, and activities; transportation resources of major American cities, including the number and types of trucks, buses, railroad cars, and refrigerated warehouse spaces available in a given city at a given time, and traffic peaks and lows in specific areas; small shipments; containerization, including standard container sizes, guidelines for container handling methods, selection of inland consolidation points for stockpiling containers, and development of mounting equipment that will be interchangeable between carriers; simplification of Department of Defense documentation procedures between the Government and common carriers; munitions movement.

HOLDINGS: Data compilations, technical reports, periodicals, reviews, pamphlets.

PUBLICATIONS: *National Defense Transportation Journal* (bimonthly, available by subscription); newsletter (monthly); brochure.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; prepares analyses and evaluations. Brief answers are provided on a courtesy basis. Beyond this, the extent of the answer depends on the nature of the inquiry and its relation to an existing or planned program of the Association, and the status of the inquirer.

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

1529 155 East 44th St.
New York, N.Y. 10017
Tel: (212) 682-1500

AREAS OF INTEREST: Household appliances; lighting, signaling, and communications equipment; industrial apparatus; building equipment; insulating materials; wire and cable; generation, transmission, and distribution equipment.

HOLDINGS: 300 books.

PUBLICATIONS: Standards and specifications (*Your Guide to NEMA Standards Publications* is available free on request).

INFORMATION SERVICES: Answers inquiries. Statistical data on production and marketing of electrical products are compiled, but requests for such data must be made through personal visit to NEMA headquarters.

NATIONAL ENVIRONMENTAL HEALTH ASSOCIATION

1530 Lincoln Bldg.
1550 Lincoln St.

Denver, Colo. 80203
Tel: (303) 222-4456 or 222-5118

AREAS OF INTEREST: Air and water pollution control; solid waste disposal; land development, preservation, and ecology; food and water quality control; management of institutional and industrial sanitation; housing and city planning; health care facilities; other phases of environmental control and improvement.

HOLDINGS: Reports, allied health professional journals.

PUBLICATIONS: *Journal of Environmental Health*; professional pamphlets, newsletter.

INFORMATION SERVICES: Answers inquiries regarding professional development, education in environmental health, and employment opportunities; conducts Annual Educational Conference in Environmental Health.

NATIONAL ENVIRONMENTAL SATELLITE CENTER

see Commerce, Department of. Environmental Science Services Administration

NATIONAL ENVIRONMENTAL SYSTEMS CONTRACTORS ASSOCIATION

1531 221 North LaSalle St.
Chicago, Ill. 60601
Tel: (312) 726-6026

AREAS OF INTEREST: Forced warm air furnaces; central air conditioners; refrigeration systems; controls; blowers; filters; humidifiers; ducts; fittings; electronic air cleaners; registers and diffusers; accessories.

HOLDINGS: Reports, data.

PUBLICATIONS: *'Environmental Systems Library*; *Service Operation Manual*; *Instructor's Course Outline for Basic Refrigeration*; *Student Workbook for Basic Refrigeration*; *Management Reference Guide*; *Principles of Air Conditioning*; *What Makes a Good Air Conditioning System?*; *Selection of Distribution Systems*; *Recommended Installation Practices and Recommended Municipal Code*; *Warm Air Heating and Air Conditioning Digest*; other reports, standards and specifications.

INFORMATION SERVICES: Provides limited reference and consulting services.

NATIONAL FEDERATION OF SCIENCE ABSTRACTING AND INDEXING SERVICES

1532 2102 Arch St.
Philadelphia, Pa. 19103
Tel: (215) 563-3341

AREAS OF INTEREST: Abstracting and indexing services in the United States.

HOLDINGS: A sample collection of journals published by members of the Federation.

PUBLICATIONS: *Annual Proceedings*; *Guide to the World's Abstracting and Indexing Services in Science and Technology* (1963); *News from Science Abstracting and Indexing Services* (bimonthly newsletter); *Technical Reports* series. The Federation markets the FID *Guide to Abstracting Services* (2 vols., 1969).

INFORMATION SERVICES: Provides reference services as time and resources permit.

NATIONAL FIRE PROTECTION ASSOCIATION

1533 60 Batterymarch St.
Boston, Mass. 02110
Tel: (617) 482-8755

AREAS OF INTEREST: Development of fire prevention and fire protection standards and public educational materials to reduce loss of life and destruction of property, including codes, standards, and recommended practices covering the following: flammable and combustible liquids; flammable and nonflammable gases; combustible solids, dusts, and explosives; occupancy and process hazards; installation of electrical wiring and equipment; installation of oil- and gas-fueled equipment and devices; pulverized coal systems; installation of automatic sprinklers, fire pumps, water tanks, alarms, and special extinguishing equipment; portable and manual fire control equipment; ground, marine, and air transportation; fire protection considerations affecting building construction and facilities, including exit facilities, air conditioning, chimneys and heating equipment, fire doors and windows, and associated structural fire problems; lightning protection; the administration of fire departments; handling fire emergencies in industrial, institutional, and commercial properties; flammable anesthetics, nonflammable medical gas systems, inhalation therapy, hospital laboratories, hyperbaric facilities, and fumigation; fire alarm and warning systems; protection of records and library and museum collections; computer and data processing equipment protection; hazardous chemicals data; processing magnesium, titanium, and zirconium; storage practices; aircraft rescue and firefighting and aircraft fueling and servicing; mobile homes; marine terminals and motor craft; wearing apparel and textile flammability; and radioactive materials handling and nuclear reactor protection.

HOLDINGS: A technical reference library with an international collection of texts related to areas of the Association's interest; reports of more than 200,000 fires, including a special collection of records of fires in which the effects of occupancy, protective equipment, and fire control operations are identified in detail.

PUBLICATIONS: *Fire Journal* (bimonthly); *Firemen* (monthly magazine); *Fire Technology* (quarterly); *Fire News* (monthly); *National Fire Codes* (annual, in 10 volumes); *Fire Protection Handbook* (every 5 years); *NFPA Inspection Manual* (inspection procedures for all types of properties, hazards, building features, and protective equipment); books, technical reports, proceedings, state-of-the-art reviews, data handbook, index, bibliography, directory, pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides limited consulting services for members; makes fire-record studies for fee; sells training films and slides and published materials.

NATIONAL FLUID POWER ASSOCIATION

1534 P.O. Box 49
Thiensville, Wis. 53092

Location:

227 South Main St.
Thiensville, Wis.
Tel: (414) 242-4160

AREAS OF INTEREST: Fluid power and hydraulics; terminology; technical standards; accumulators; cylinders; filters; lubricators; regulators; hydraulic valves, pumps, motors, and fluid conditioners; pneumatic valves, pumps, and motors; sealing devices; reservoirs; fluidics; fluids; sales statistics for the industry; education; fluid power safety.

HOLDINGS: 1,500 technical reports, standards, and publications.

PUBLICATIONS: *National Fluid Power Association Directory*; *NFPA Reporter* (monthly); *Fluid Powergram*; *Fluid Power Index* (monthly); bulletins, preprints, reprints, graphs, tables, standards and specifications, pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite use of collection.

NATIONAL FOREST PRODUCTS ASSOCIATION

1535 1619 Massachusetts Ave. NW.
Washington, D.C. 20036
Tel: (202) 332-1050

AREAS OF INTEREST: Light frame and heavy timber construction; building code requirements; Government specifications; fire insurance ratings; wood applications in building construction.

HOLDINGS: 10,000 books.

PUBLICATIONS: *Forest Products Newsletter* (weekly); *Lumber and Wood Products Literature*; technical reports; specifications; wood construction data.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services; permits onsite use of collection.

NATIONAL GALLERY OF ART RESEARCH PROJECT

1536 Carnegie-Mellon University
Mellon Institute
4400 Fifth Ave.
Pittsburgh, Pa. 15213
Tel: (412) 621-1100

AREAS OF INTEREST: Care and treatment of museum objects; chemistry of artists' materials, particularly paints and varnishes; pigments (fading, analysis); thermoplastic polymers and polymer emulsions used in conservation of museum objects and in creative painting; deterioration of polymers, paints, and pigments; action of light on museum objects; ultraviolet and heat-reflecting filters.

PUBLICATIONS: *On Picture Varnishes and Their Solvents* (book); information bulletins; papers.

INFORMATION SERVICES: Answers inquiries; makes referrals.

NATIONAL GEOGRAPHIC SOCIETY

Geographic Research Division

1537 National Geographic Society
17th and M Sts. NW.
Washington, D.C. 20036
Tel: (202) 296-7500

AREAS OF INTEREST: Locations, lengths, heights, etc. of physical geographic features (e.g., rivers, mountains, ocean limits); size of earth; space science data; statistical facts of the world; standardization of geographic data; populations; area descriptions.

HOLDINGS: Books, periodicals, newsletters, pamphlets, booklets, leaflets, brochures, maps, charts, slides, photos, motion pictures, paper and magnetic tapes, flag files.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; permits onsite use of literature collection.

NATIONAL HARDWOOD LUMBER ASSOCIATION

1538 59 East Van Buren St.
Chicago, Ill. 60605
Tel: (312) 427-2811

AREAS OF INTEREST: Lumber; hardwood lumber; veneer; standards and specifications.

PUBLICATIONS: *National Hardwood News* (monthly); *Yearbook*; *Official Rules Book*.

INFORMATION SERVICES: Answers brief inquiries; inspects, measures, grades, and certifies hardwood lumber.

The Association maintains an inspection training school in Memphis, Tenn.

NATIONAL HIGH SCHOOL AND JUNIOR COLLEGE MATHEMATICS CLUB

1539 1000 Asp Ave., Room 215
University of Oklahoma
Norman, Okla. 73069
Tel: (405) 325-4489

AREAS OF INTEREST: Mathematics clubs and associated activities.

HOLDINGS: Handbook for sponsors, newsletters, preprints, reprints, publication lists, bibliographies, pamphlets.

PUBLICATIONS: *Mu Alpha Theta Booklist for High School Libraries* (every 3 years); *Chips from the Mathematical Log* (mathematics articles for high school students); handbooks, newsletters, publications lists, bibliographies, pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

NATIONAL HIGHWAY SAFETY BUREAU

see Transportation, Department of

NATIONAL HOME IMPROVEMENT COUNCIL, INC.

1540 11 East 44th St.
New York, N.Y. 10017
Tel: (212) 867-0121

AREAS OF INTEREST: Home improvement; construction; construction industry.

HOLDINGS: Motion pictures, photos, slides, technical reports, books, periodicals, newsletters, reprints, data compilations, press releases, clippings.

PUBLICATIONS: Pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and bibliographic services; conducts seminars and management clinics. Onsite use of collection is not permitted.

NATIONAL HOUSEWARES MANUFACTURERS ASSOCIATION

1541 1130 Merchandise Mart
Chicago, Ill. 60654
Tel: (312) 644-3333

AREAS OF INTEREST: American housewares industry, including wholesale and retail sales, manufacturing, buying statistics, product style, design, trends, etc.

HOLDINGS: Data compilations, photos, brochures, clippings.

PUBLICATIONS: Business survey of housewares industry (annual); brochures, press releases.

INFORMATION SERVICES: Makes referrals; sponsores semiannual National Housewares Exhibit.

NATIONAL HURRICANE RESEARCH LABORATORY

see Commerce, Department of. Environmental Science Services Administration. Research Laboratories

NATIONAL INSTITUTE FOR REHABILITATION ENGINEERING

1542 59 Hamburg Turnpike
Pompton Lakes, N.J. 07442
Tel: (201) 694-9100

AREAS OF INTEREST: Invention, design, construction, fitting, and servicing of special custom-made devices for individuals with any specific physical disabilities.

HOLDINGS: Technical data on over 3,600 different technical aides for the physically disabled; collection of books, periodicals, and reports.

PUBLICATIONS: Reports, specifications, descriptive literature, reprints, newspaper articles.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, and duplication services; distributes reprints at cost; makes referrals; lends materials in literature collection; investigates new devices for the physically disabled; builds and dispenses all types of equipment to handicapped individuals. Services are available to any physically disabled person without regard to ability to pay as long as funds are available.

NATIONAL INSTITUTE OF DRYCLEANING

1543 909 Burlington Ave.
Silver Spring, Md. 20910
Tel: (301) 589-2334

AREAS OF INTEREST: Drycleaning, including relevant textile and chemical science and technology; end-use performance of textile products.

HOLDINGS: 1,000 books; 1,100 journals; 650 reports.

PUBLICATIONS: Standards and specifications; textbooks on drycleaning and fabric behavior subjects; instructive bulletins on fabrics and chemical and technical matters related to drycleaning; reports of fellowship studies done in cooperation with firms supplying drycleaners.

INFORMATION SERVICES: Provides consulting and reference services; offers resident and correspondence courses in drycleaning technology and management; holds conferences and conventions. Services are primarily for Institute members, but are also available to persons not eligible for membership within reasonable limits.

NATIONAL INSULATION MANUFACTURERS ASSOCIATION

1544 441 Lexington Ave.
New York, N.Y. 10017
Tel: (212) 682-3574

AREAS OF INTEREST: Thermal mineral insulation.

HOLDINGS: Books, reports, periodicals, abstracts, indexes, data.

PUBLICATIONS: Pamphlets.

INFORMATION SERVICES: Answers brief inquiries; makes referrals.

NATIONAL INVESTIGATIONS COMMITTEE ON AERIAL PHENOMENA

1545 1522 Connecticut Ave. NW.
Washington, D.C. 20036
Tel: (202) 667-9434

AREAS OF INTEREST: Aerial phenomena; unidentified flying objects and related subjects (meteors; meteorites; aerial explosions; possibility of extraterrestrial life; meteorological, lunar, and astronomical phenomena).

HOLDINGS: Data forms, clippings, letters, books, periodicals, newsletters, tapes, maps, photos, art work, specialized publications, special documents.

PUBLICATIONS: General membership newsletter.

INFORMATION SERVICES: Answers general inquiries; makes referrals; permits limited onsite use of collection; provides reports, information, and special documents to scientists and scientific organizations as time permits. The Committee is planning a computer service for data exchange.

NATIONAL LEAD CO.

Baroid Division Library

1546 National Lead Co.
P.O. Box 1675
Houston, Tex. 77001

Location:

2404 Southwest Freeway
Houston, Tex.
Tel: (713) 524-6381 Ext. 330

AREAS OF INTEREST: Drilling and completion fluids for oil, gas, and water; seismic and shaft drilling; analytical well logging; petroleum production chemicals; organic, inorganic, and organophilic colloids; automatic gas detection and alarm systems; foundry sand pellet binders; grease thickeners; solids control equipment; cathodic protection; testing equipment, corrosion inhibitors; adsorbents; viscosifiers and amines.

HOLDINGS: Microfilm on descriptive geology of barite deposits and on the worldwide distribution of nonmetallic mineral deposits; journal articles, company patents, and patents on the subject of drilling fluids for oil wells and other areas of activity.

PUBLICATIONS: *Baroid News Bulletin*; *Baroid Data Book*; *Baroid Reference Manual*; *Baroid Product Announcement*; *Baroid Product Data Sheets*; brochures, catalogs.

INFORMATION SERVICES: Provides duplication services free to members of Special Libraries Association (SLA) and for fee to others; makes loans to SLA members, commercial and industrial organizations in the fields of petroleum and mining who are not equipped with libraries, and other organizations, societies or agencies upon evaluation of requests received; permits onsite reference.

National Lead Co. of Ohio Library

1547 P.O. Box 39158
Cincinnati, Ohio 45239
Tel: (513) 521-1800

AREAS OF INTEREST: Chemistry; metallurgy; nuclear technology; chemistry and metallurgy of uranium and its compounds, including their preparation and production from ore to metal.

HOLDINGS: 6,000 books; 3,400 journals; 350,000 AEC reports, including 230,000 microcard copies and 100,000 microfiche copies; patents.

PUBLICATIONS: Technical reports, standards and specifications, accessions list.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans of unclassified material.

Research Laboratories

1548 National Lead Co.
P.O. Box 420
Hightstown, N.J. 08520

Location:

Wycoff Mills Rd.
Hightstown, N.J.
Tel: (609) 448-3200

AREAS OF INTEREST: Chemistry; chemical technology; metallurgy; plastics; paints.

HOLDINGS: 3,500 books; 3,000 bound volumes of journals; 3,000 reports; patents, data.

PUBLICATIONS: Newsletter, reports, standards and specifications, bibliographies.

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans of nonproprietary material.

TAM Division

Research Library

1549 TAM Division
National Lead Co.
4511 Hyde Park Blvd.
Niagara Falls, N.Y. 14305
Tel: (716) 285-9304

AREAS OF INTEREST: Ceramics; dielectric materials; refractory metals; high temperature refractories; zirconium; titanium; hafnium; rare earths.

HOLDINGS: 3,500 books; 600 journals; 600 reports; patents, films, photos.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference; provides duplication services.

Titanium Pigment Division

R & D Department Library

1550 Titanium Pigment Division
National Lead Co.
P.O. Box 58
South Amboy, N.J. 08879

Location:

Chevalier Ave.
Sayreville, N.J.
Tel: (201) 721-1500 Ext. 269

AREAS OF INTEREST: Technology of titanium, titanium pigments, titaniferous ores, and single crystals.

HOLDINGS: 5,060 books; journals, patents, films, photos.

PUBLICATIONS: Abstract journal, index, bibliography.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference by appointment.

NATIONAL LEAGUE OF CITIES

1551 City Bldg.
1612 K St. NW.
Washington, D.C. 20006
Tel: (202) 293-7300

AREAS OF INTEREST: Urban problems, including taxes, race relations, traffic, highways, urban renewal, housing, sewage disposal, air and water pollution, airports, crime, public facilities, urban mass transportation, civil defense, municipal administration, municipal cooperation, and Federal-city relations.

HOLDINGS: A reference library of 5,000 books, 250 periodical titles, municipal codes and charters, and city annual financial and progress reports.

PUBLICATIONS: *Nation's Cities* (monthly magazine); *National Municipal Policy* (annual); labor relations bulletin (semimonthly), conference proceedings, special reports.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services; permits onsite use of library materials; makes interlibrary loans. Services are primarily for members, but are also available to others as time permits.

NATIONAL LIME ASSOCIATION

1552 4000 Brandywine St. NW.
Washington, D.C. 20016
Tel: (202) 966-3418

AREAS OF INTEREST: All aspects of lime technology, including manufacture, method of tests, specifications, and all uses in chemical, structural, highway, and agricultural fields; lime-soil and lime-silica reactions; water purification and softening with lime; chemical treatment of sewage and industrial wastes.

HOLDINGS: Books, periodicals, abstracts, technical reports, graphs, tables, specifications, reviews, newsletters, reprints, bibliographies, publication lists, pamphlets, maps and charts, display materials, films, photos, slides, press releases, clippings, data compilations, samples of soils, limes, mortars, and slags.

PUBLICATIONS: *Chemical Lime Facts* (bulletin); *Water Supply and Treatment* (book); *Chemical Treatment of Sewage and Industrial Waste* (book); films.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; provides analytical and testing services to member companies (lime manufacturers) and certain Government agencies.

NATIONAL LP-GAS ASSOCIATION

1553 79 West Monroe St.
Chicago, Ill. 60603
Tel: (312) 372-5484

AREAS OF INTEREST: Liquefied petroleum and propane and butane gas, including appliances, equipment, storage, handling, transportation, safety standards, statistics, education, advertising and promotion, and research and development of uses for LP-gas.

HOLDINGS: Books, journals, reports, films, photos.

PUBLICATIONS: *NLPGA Times*; reports, standards and specifications.

INFORMATION SERVICES: Answers inquiries; provides reference and consulting services.

NATIONAL LUBRICATING GREASE INSTITUTE

1554 4635 Wyandotte St., Room 202
Kansas City, Mo. 64112
Tel: (816) 931-9480

AREAS OF INTEREST: Grease lubrication.

HOLDINGS: Reports.

PUBLICATIONS: *NLGI Spokesman* (monthly); reports, standards, reviews, reprints.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides bibliographic services.

NATIONAL MARINE WATER QUALITY LABORATORY

see Interior, Department of the. Federal Water Quality Administration

NATIONAL METEOROLOGICAL CENTER

see Commerce, Department of. Environmental Science Services Administration. Weather Bureau

NATIONAL MICROFILM ASSOCIATION

1555 8728 Colesville Rd., Suite 1101
Silver Spring, Md. 20910
Tel: (301) 587-8444

AREAS OF INTEREST: Microdocumentary reproduction, including microforms (microfilm, microprint, microfiche) and related technology.

HOLDINGS: Books, journals.

PUBLICATIONS: *Journal of Micrographics* (bimonthly); *Micro News Bulletin* (12 times a year); *NMA Proceedings of Annual Meetings* (annual); *Guide to Microreproduction Equipment*; *Glossary of Terms for Microphotography and for Reproductions Made from Micro-Images*; Monograph Series.

INFORMATION SERVICES: Makes referrals; conducts seminars for fee (approximately 50 a year in principal cities of U.S.). The Association's publications are available by purchase.

NATIONAL MINERAL WOOL INSULATION ASSOCIATION

1556 211 East 51st St.
New York, N.Y. 10022
Tel: (212) 758-5210

AREAS OF INTEREST: Insulation, including rock, slag, and glass wool; conservation of energy fuels for heating and cooling; builder and owner savings on heating and cooling equipment and operating costs.

HOLDINGS: Books, reports, films, data.

PUBLICATIONS: Reports, state-of-the-art reviews, standards and specifications, brochures.

INFORMATION SERVICES: Provides reference services.

NATIONAL MUSEUM OF HISTORY AND TECHNOLOGY

see Smithsonian Institution

NATIONAL MUSEUM OF NATURAL HISTORY

see Smithsonian Institution

NATIONAL MUSEUM OF TRANSPORT

1557 3015 Barretts Station Rd.
St. Louis, Mo. 63122
Tel: (314) 965-6885

AREAS OF INTEREST: Transportation devices of historical interest, including rail, pipeline, highway, air, water, urban, and animal-drawn transport; communication devices of historical interest.

HOLDINGS: The collection includes more than 50 steam, diesel, and electric locomotives and railway cars; a city transit display of horsecars, streetcars, buses, and an elevated car; commercial aircraft; and smaller related artifacts. The Museum's reference library consists of some 6,000 volumes as well as source material from Government and industry, 100 trade journal and periodical titles, 30,000 photographs, 200 motion picture films, and an extensive collection of unevaluated data. There is also a large collection of mechanical tracings related to railroad, highway, city transit, air transport, waterway, and pipeline carriers.

INFORMATION SERVICES: The Museum is open to the public and access to the library is given to academic and scientific visitors by appointment. The staff answers technical questions, makes referrals, identifies and evaluates documents, and provides duplication services. Fees are charged on a cost basis. Circulating exhibits are available on loan. School and community groups may schedule guided tours of the Museum throughout the year, and there are summer sessions for students. There is a charge for admission.

NATIONAL NEUTRON CROSS SECTION CENTER

see Brookhaven National Laboratory

NATIONAL OCEANOGRAPHIC INSTRUMENTATION CENTER

1558 Washington, D.C. 20390
Tel: (202) 693-3193

The Center acts as the national focal point for knowledge of technology related to the testing, evaluation, and calibration of sensing systems for ocean use.

AREAS OF INTEREST: Oceanographic instruments, including testing, calibration, and evaluation, reliability investigations, metrology (test methods and standards), and documentation (reports and test facilities).

HOLDINGS: Reports, bulletins.

PUBLICATIONS: Reports, bulletins.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, and abstracting and indexing services; disseminates information on the location and availability of oceanographic instrument testing facilities; performs instrument tests on a reimbursable cost basis.

NATIONAL OCEANOGRAPHY ASSOCIATION

1559 1900 L St. NW., Suite 301
Washington, D.C. 20036
Tel: (202) 296-1647

AREAS OF INTEREST: General oceanography, particularly the development of public understanding and support for the growth of oceanography in the United States.

HOLDINGS: Small working collection of books.

PUBLICATIONS: Newsletter (monthly); "Oceanography Curricula," a listing of institutions offering degrees in oceanography or marine sciences; "Scholarships, Grants-in-Aid and Fellowships for Oceanography Students" (booklet); pamphlet outlining the aims and purposes of the Association; "-Selected Reading in Oceanography;" "Career Information in Oceanography; " other educational materials.

INFORMATION SERVICES: Answers inquiries; provides reference services; makes referrals.

NATIONAL OUTERWEAR AND SPORTSWEAR ASSOCIATION, INC.

1560 347 Fifth Ave.
New York, N.Y. 10016
Tel: (212) 679-1050

AREAS OF INTEREST: Production problems in the manufacture of outer garments and sportswear; factory improvement; style and design information.

HOLDINGS: Monthly production bulletins.

PUBLICATIONS: *Outerwear News* (monthly).

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services; conducts production seminars, which are open to the public, several times a year.

NATIONAL PAINT, VARNISH, AND LACQUER ASSOCIATION

1561 1500 Rhode Island Ave. NW.
Washington, D.C. 20005
Tel: (202) 462-6272

AREAS OF INTEREST: Paints, varnishes, lacquers, organic coatings, pigments, printing inks, resins, oils, solvents, plasticizers, and other products of the industry; wallpapering; decorating; color.

HOLDINGS: Books, reports, a special collection of foreign language periodicals.

PUBLICATIONS: *Abstract Review* (monthly), containing abstracts from English, Russian, Italian, Spanish, French, and German sources arranged by subject; *Guide to U.S. Government Paint Specifications*; *Coatings* (semimonthly newsletter); *NPVLA Trademark Directory* (annual); *Raw Materials Indexes*; reports, pamphlets.

INFORMATION SERVICES: Provides reference, consulting, and duplication services; permits onsite reference.

NATIONAL PARK SERVICE

see Interior, Department of the

NATIONAL PARKING ASSOCIATION

1562 1101 17th St. NW.
Washington, D.C. 20036
Tel: (202) 296-4336

AREAS OF INTEREST: Design, construction, and operation of off-street parking facilities.

PUBLICATIONS: *Parking Newsletter*; *Parking* (quarterly); *Canadian Newsletter* (monthly).

INFORMATION SERVICES: Provides reference services on an individual basis, as negotiated.

NATIONAL PETROLEUM REFINERS ASSOCIATION

1563 1725 DeSales St. NW., Suite 802
Washington, D.C. 20036
Tel: (202) 638-3722

AREAS OF INTEREST: Refining technology; computers; oil imports; pipelines; asphalt; manufacturing; fuels; lubricants; labor relations; fire and accident prevention; water and air pollution control laws.

HOLDINGS: Statistics; technical reports (available on request).

PUBLICATIONS: Newsletter, reports, proceedings, standards and specifications, manuals on pipeline rates, oil imports, and labor relations. Some publications are restricted to members.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; conducts surveys.

NATIONAL PRINTING EQUIPMENT ASSOCIATION, INC.

1564 217 Broadway
New York, N.Y. 10007
Tel: (212) 227-5694

AREAS OF INTEREST: The building, manufacturing, repairing, selling, importing for sale, and distributing of machinery, equipment, and supplies used in the graphic arts industry.

PUBLICATIONS: Bulletins (distributed to member companies of the Association).

INFORMATION SERVICES: Answers brief inquiries; makes referrals.

NATIONAL RADIO ASTRONOMY OBSERVATORY

1565 Edgemont Rd.
Charlottesville, Va. 22901
Tel: (703) 296-0211

P.O. Box 2
Green Bank, W. Va. 24944
Tel: (304) 456-2011

The Observatory's main office is in Charlottesville, where staff offices, the library, and the computer are located. Radio telescopes are located at Green Bank, W. Va.

AREAS OF INTEREST: Radio astronomy; cosmology; galactic and extragalactic sources of radio radiation; parabolic antennas; radio telescope design; line and continuum radio astronomy; radiometer development and instrumentation; techniques of computer analysis of data.

HOLDINGS: 2,700 monographs; 3,800 bound volumes of periodicals and observatory publications; subscriptions to over 200 journals; Palomar Sky Atlas and other important astronomical data.

INFORMATION SERVICES: Answers specific inquiries about radio astronomy observations, theory, or techniques. The Observatory encourages use of its facilities by all qualified radio astronomers.

Facilities include a 300-foot diameter meridian transit telescope, a 140-foot fully steerable centimeter-wave telescope, three 85-foot telescopes used as an interferometer, a 36-foot millimeter wave telescope (Kitt Peak, Ariz.), and an IBM 360/50 computer.

NATIONAL REACTOR TESTING STATION

Gamma-Ray Spectrum Catalogue

1566 National Reactor Testing Station
P.O. Box 1845
Idaho Falls, Idaho 83401
Tel: (208) 526-4447

AREAS OF INTEREST: Gamma-ray spectra of radionuclides, using NaI(Tl) Scintillation spectrometers and Ge(Li) solid-state gamma-ray spectrometers to obtain experimental spectra and gamma-ray intensities; gamma-ray spectrometry techniques; precision measurement techniques for obtaining extremely precise values for gamma-ray energies and intensities.

HOLDINGS: A vast collection of experimental gamma-ray spectra obtained with all types of scintillation and solid-state gamma-ray spectrometers on radioactive nuclides.

PUBLICATIONS: *Scintillation Spectrometry Gamma-ray Spectrum Catalogue* (2 volume compilation published as AEC Report No. IDO-16880, available from National Bureau of Standards Document Center); state-of-the-art reviews, data compilations, books, technical reports, standards and specifications. A *Gamma-ray Spectrum Catalogue-Ge(Li) Spectrometers* will be published in the near future.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services; provides R&D information; permits onsite use of the collection. Services are free within the ability and availability of staff.

Technical Library

1567 National Reactor Testing Station
P.O. Box 1845
Idaho Falls, Idaho 83401
Tel: (208) 522-4400 Ext. 2477

AREAS OF INTEREST: Nuclear science and technology (nuclear physics, nuclear chemistry, radiation, radioactivity, nuclear engineering, reactor theory, nuclear power, earth sciences, agriculture, radiobiology, nuclear medicine, industrial applications); physics (mathematical physics, instrumentation, thermodynamics, heat transfer, spectroscopy, crystallography, mechanics); chemistry (qualitative and quantitative analysis, thermochemistry, electrochemistry, metallurgic chemistry, radiation chemistry); metallurgy (alloys, liquid metals, light metals, electrometallurgy, powder metallurgy, corrosion, metal fatigue, extrusion, testing, stresses, properties of metals); mathematics (tables, probability, statistics, calculus, differential equations, trigonometry, geometry, theory of groups, functions, vector analysis); chemical engineering; electrical engineering; mechanical engineering; computers; medicine; meteorology; ecology.

HOLDINGS: 18,400 books; 10,800 journals; 206,000 reports (titles). A small nuclear science reference collection, including *Nuclear Science Abstracts*, and a limited number of circulating items are maintained by the Idaho Falls Public Library, which may borrow other NRTS Library holdings for its users under an AEC community service program.

PUBLICATIONS: *Library Bulletin* (monthly); *Reports Received List* (weekly); *Technical Journals (Including Annual Publications) at the NRTS* (yearly cumulation). A book catalog (by author, title, and subject) of all books in the Library system is available to many local users of the Library.

INFORMATION SERVICES: Answers inquiries; provides reference, bibliographic, literature-searching, and duplication services; obtains translations; makes interlibrary loans; permits onsite reference. Services are available to all bona fide research personnel by prior arrangement.

Station facilities include nuclear reactors and support facilities and equipment, reactor research instruments and equipment, and a reactor fuel element reprocessing plant.

NATIONAL RECORDS MANAGEMENT COUNCIL

NAREMCO Services, Inc.

1568 555 Fifth Ave.
New York, N.Y. 10017
Tel: (212) 697-0290

AREAS OF INTEREST: Information retrieval; business machine applications; advanced systems development; records management and paperwork control; microfilm equipment and systems; archives and records center operations; source data automation; data processing equipment and applications; specialized recordkeeping systems; forms, reports, and correspondence management; legal requirements on records retention (Federal, State, local).

HOLDINGS: 4,000 books; 95 periodicals; 700 technical reports; 9 motion picture films; 1,600 photos; 600 slides; 2,300 pamphlets; 240 bibliographies; 800 data compilations; 1,200 project records; 280 standards and specifications; 30 unpublished special studies; 70,000 clippings; 2,700 sample forms and cards; 50 office machine models; sample miniaturization formats, including experimental microforms such as micro-Xerographs, etc.; abstracts, newsletters, preprints and reprints, publication lists, press releases.

INFORMATION SERVICES: Answers brief inquiries free; makes referrals; provides consulting and bibliographic services for fee; prepares analyses or evaluations for fee; conducts advanced systems applications studies and tests for manufacturers of new equipment which can be applied to field of paperwork management, for fee; provides information on legal requirements for recordkeeping, data on business machine availability and comparisons, checklists for analyzing information retrieval systems requirements, etc., for fee; permits onsite use of collection.

NATIONAL REFERRAL CENTER

see Library of Congress. Science and Technology Division

NATIONAL RESEARCH COUNCIL

see also National Academy of Sciences--National Academy of Engineering--National Research Council; National Academy of Sciences--National Research Council

Division of Chemistry and Chemical Technology

Committee on Analytical Chemistry

1569 Division of Chemistry and Chemical
Technology
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1257

AREAS OF INTEREST: Cooperative activities of analytical chemists in industry, academic institutions, research institutions, and Government laboratories, both nationally and internationally; ion-exchange terminology; standard reference materials of certified chemical composition.

INFORMATION SERVICES: The Division of Chemistry and Chemical Technology refers inquiries to members of the Committee.

Committee on Chemical Information

1570 Division of Chemistry and Chemical
Technology
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1257

AREAS OF INTEREST: Nonconventional methods for handling chemical information; chemical notation; mechanical processing of chemical information.

PUBLICATIONS: *Survey of Chemical Notation Systems*; *Proceedings of a Conference on Mechanical Processing of Chemical Information* (1964); *Survey of European Non-Conventional Chemical Notation Systems*; *Chemical Structure Information Handling, A Review of the Literature 1962-1968*.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Committee on Colloid and Surface Chemistry

1571 Division of Chemistry and Chemical
Technology
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1257

AREAS OF INTEREST: Development and standardization of symbols, definitions, nomenclature, and methods of measurement in the field of colloid and surface chemistry; physical constants in this field.

INFORMATION SERVICES: The Division of Chemistry and Chemical Technology refers inquiries to members of the Committee.

Committee on Fundamental Constants

1572 Division of Chemistry and Chemical
Technology
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1257

AREAS OF INTEREST: Fundamental physical constants.

PUBLICATIONS: *General Physical Constants Recommended by NAS-NRC* (NBS Misc. Publ. 253).

INFORMATION SERVICES: Formulates set of best values of fundamental constants; makes referrals.

Committee on High-Temperature Chemical Phenomena

1573 Division of Chemistry and Chemical
Technology
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1257

AREAS OF INTEREST: Activities concerned with high-temperature phenomena and related aspects of materials sciences.

PUBLICATIONS: *High-Temperature Chemistry: Current and Future Problems*.

INFORMATION SERVICES: The Division of Chemistry and Chemical Technology refers inquiries to members of the Committee.

Committee on Kinetics of Chemical Reactions

1574 Division of Chemistry and Chemical
Technology
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1257

AREAS OF INTEREST: Chemical kinetics.

PUBLICATIONS: *Tables of Chemical Kinetics: Homogeneous Reactions* (NBS Circular 510 and Supplement I, and Monograph 34).

INFORMATION SERVICES: The Division of Chemistry and Chemical Technology refers inquiries to members of the Committee.

Committee on Macromolecular Chemistry

1575 Division of Chemistry and Chemical
Technology
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1257

AREAS OF INTEREST: National and international nomenclature and standards in macromolecular chemistry; polymer science.

PUBLICATIONS: *Unsolved Problems in Polymer Science, a Compilation of Essays with a Bibliography of Reviews*.

INFORMATION SERVICES: The Division of Chemistry and Chemical Technology refers inquiries to members of the Committee.

Committee on Nomenclature

1576 Division of Chemistry and Chemical Technology
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1257

AREAS OF INTEREST: Chemical nomenclature; standardization of chemical nomenclature.

INFORMATION SERVICES: The Division of Chemistry and Chemical Technology refers inquiries to members of the Committee.

Committee on Specifications and Criteria for Biochemical Compounds

1577 Division of Chemistry and Chemical Technology
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1257

AREAS OF INTEREST: Chemicals for biochemical research (standardization and improvement of quality).

PUBLICATIONS: *Specifications and Criteria for Biochemical Compounds.*

INFORMATION SERVICES: The Division of Chemistry and Chemical Technology refers inquiries to members of the Committee.

Committee on Symbols, Units, and Terminology

1578 Office of Critical Tables
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1388

AREAS OF INTEREST: Symbols, units, and terminology in all areas of the physical sciences.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Office of Biochemical Nomenclature

1579 c/o Dr. Waldo E. Cohn
Oak Ridge National Laboratory
Oak Ridge, Tenn. 37830
Tel: (615) 483-7514

AREAS OF INTEREST: Coordination of national and international efforts in biochemical nomenclature.

INFORMATION SERVICES: Answers inquiries; provides reprints of published rules; makes referrals.

Division of Earth Sciences

Committee on Geography

1580 Division of Earth Sciences
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1204

AREAS OF INTEREST: Geographic research; geographic concepts; contribution of geography to the general progress of science; geography in Government.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Committee on Oceanography

1581 Division of Earth Sciences
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1394

AREAS OF INTEREST: National oceanography program; basic research in the marine sciences.

PUBLICATIONS: *Oceanography Information Sources/70*; *Oceanography 1966--Achievements and Opportunities*; *A Directory of Oceanographers in the United States*.

INFORMATION SERVICES: Provides advice to Government agencies on oceanographic problems.

Committee on Remote Sensing of Environment

1582 Division of Earth Sciences
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1204

AREAS OF INTEREST: Remote sensing of environment.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Committee on Seismology

1583 Division of Earth Sciences
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1204

AREAS OF INTEREST: Seismology.

INFORMATION SERVICES: Answers inquiries; makes referrals; advises Government agencies on the worldwide network of standardized seismograph stations and on seismological research.

Committee on the Alaska Earthquake

1584 Division of Earth Sciences
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1508

AREAS OF INTEREST: Alaska earthquake of 1964 and its effects.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Division of Engineering

Building Research Advisory Board

1585 Division of Engineering
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418

Location:

Joseph Henry Bldg., Suite 313
2100 Pennsylvania Ave. NW.
Washington, D.C.
Tel: (202) 961-1348

AREAS OF INTEREST: Building science and technology; housing, building, planning, and related environmental design technologies.

PUBLICATIONS: *Building Research* (quarterly journal of the Board's Building Research Institute); reports of advisory committees; proceedings of conferences, symposia, and workshops; special publications.

INFORMATION SERVICES: In its work for and with private organizations or Government, the Board reviews and advises on research and technical problems, monitors research by others, organizes workshops, conferences, and symposia, acts to stimulate and correlate information, and in general explores subjects in the fields of housing, building, planning, and related environmental technologies where its objectivity and expertise are needed. The Board's Building Research Institute, a national, interdisciplinary organization with an international membership, provides a forum where building scientists and technologists may discuss technical problems, delineate areas for further research, and collect, correlate, and distribute information about building research and technology for the benefit of the construction industry and its related professions.

Committee on Fire Research

1586 Division of Engineering
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1486

AREAS OF INTEREST: Control of mass fires, including forest fires, urban fires resulting from incendiary bombs, and oil refinery fires; ignition phenomena; thermal decomposition; heat transfer; diffusion flames; combustion principles; radiation; suppression of combustion; model studies and scaling laws; atomization of liquids; meteorological interactions; operational research principles; instrumentation; firefighting techniques and equipment design; construction materials.

PUBLICATIONS: *Fire Research Abstracts and Reviews* (3 issues a year, with cumulative annual index; a cumulative 5-year author and subject index covering all issues through 1963 is available); *Directory of Fire Research in the United States* (biennial).

INFORMATION SERVICES: Provides technical advice and consulting services to Government agencies on the prevention and control of war and peacetime fires.

Committee on Prosthetics Research and Development

1587 Division of Engineering
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1345

AREAS OF INTEREST: Prosthetics and orthotics (new devices and techniques); sensory aids.

PUBLICATIONS: *Artifical Limbs* (semiannual, prepared jointly with the Committee on Prosthetic-Orthotic Education of the NAS-NAE-NRC Division of Medical Sciences); *Inter-Clinic Information Bulletin* (about once a month); conference reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; prepares bibliographies and analytical or evaluative reports.

Conference on Electrical Insulation and Dielectric Phenomena

1588 Division of Engineering
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1486

AREAS OF INTEREST: Dielectrics and insulators, including plastics and semiconductors.

PUBLICATIONS: *Digest of Literature on Dielectrics* (annual); *Conference on Electrical Insulation and Dielectric Phenomena Annual Report* (contains all summarized papers presented at annual conference).

INFORMATION SERVICES: Answers inquiries; makes referrals.

Highway Research Board

1589 Division of Engineering
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418

Location:

Joseph Henry Bldg.
2100 Pennsylvania Ave. NW.
Washington, D.C.
Tel: (202) 961-1334

AREAS OF INTEREST: Highway transportation research and technology (economics, finance, and administration; design; materials and construction; maintenance; traffic and operations; soils, geology, and foundations; urban transportation planning; legal studies; safety, equipment, etc.).

HOLDINGS: 3,000 volumes; a computer-based information storage and retrieval system containing 5,000 descriptions of on-going transportation research in the United States and abroad, and abstracts of 6,000 selected research reports published throughout the world since 1964 and relating to transportation research.

PUBLICATIONS: *Highway Research Record* (irregular); *Highway Research News* (quarterly); *Highway Research Abstracts* (monthly); *Highway Research in Progress* (annual); *Yearbook*; *National Cooperative Highway Research Reports* (irregular); indexes of publications; bibliographies; special reports. A list of publications is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference; makes limited interlibrary loans. The automated information storage and retrieval system (Highway Research Information Service) is equipped to provide direct answers to specific inquiries and a current awareness service, and to prepare publications covering items in its store related to specific problems. (Charges are nominal and related to the actual cost.) The Board provides a national clearinghouse and correlation service for research activities and information relating to highway administration, transport, and technology.

Maritime Transportation Research Board

1590 Division of Engineering
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418

Location:

Joseph Henry Bldg.
2100 Pennsylvania Ave. NW.
Washington, D.C.
Tel: (202) 961-1663

AREAS OF INTEREST: Maritime transportation; ship design and construction; ship operations and manning; maritime trade and economics; port design and operation; intermodal cargo systems and cargo transfer; information transfer; ship and longshore safety; social and economic consequences of technological change; stimulation and correlation of maritime research.

PUBLICATIONS: Bibliographies, analyses, surveys, evaluations.

INFORMATION SERVICES: Provides the Board's sponsors with research advisory services.

SHIP HULL RESEARCH COMMITTEE

1591 Division of Engineering
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1452

AREAS OF INTEREST: Hull structure of ships (design, materials, fabrication methods, inspection).

PUBLICATIONS: Reports on research projects; bibliographies of Ship Structure Committee publications.

INFORMATION SERVICES: Provides advisory services.

National Materials Advisory Board

1592 Division of Engineering
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1436

AREAS OF INTEREST: Materials science and technology; metallurgy; organic and inorganic nonmetallic materials; materials processing and fabrication; materials phenomena; education in the materials field.

HOLDINGS: Journals, reports, and unpublished data on materials research and development.

PUBLICATIONS: Technical reports; annual list of reports.

INFORMATION SERVICES: On request, provides advice and assistance to Government agencies and appropriate organizations in the private sector on matters of materials science and technology affecting the national interest; disseminates information on Board activities and related national concerns; makes referrals.

Division of Mathematical Sciences

1593 National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1240

AREAS OF INTEREST: Mathematics, including applied mathematics and industrial mathematics; numerical analysis; theory of numbers; statistics; computation; computers; mathematical dictionaries; mathematical tables; U.S. and foreign mathematicians.

PUBLICATIONS: *Fellowship and Research Opportunities in the Mathematical Sciences* (annual) and *Annual Report of the Division* (both available free from the Division); *Handbook of Mathematical Functions* (1964, available from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402); *The Mathematical Sciences: A Collection of Essays* (1969, available from M.I.T. Press, Cambridge, Mass. 02142); *The Mathematical Sciences: A Report* (1968), *The Mathematical Sciences: Undergraduate Education* (1968), and *Linear Algebras* (1957), all available from the Printing and Publishing Office, National Academy of Sciences, 2101 Constitution Ave. NW., Washington, D.C. 20418; *Topology of Fibre Bundles* (1951, available from Princeton University Press, Princeton, N.J. 08504); *Statistical Analysis in Chemistry and the Chemical Industry* (1954, available from John Wiley & Sons, Inc., 605 Third Ave., New York, N.Y. 10016). The Division played an important role in effecting the translation of the Soviet periodical, *Theory of Probability and Its Applications*. Through the U.S. National Committee for Mathematics, the Division assists in the preparation of the *World Directory of Mathematicians*. Also, the Division was instrumental in the preparation of Russian-English and English-Russian mathematical dictionaries published in 1961 and 1962 under the joint auspices of the Academies of Science of the U.S.A. and the U.S.S.R. and the American Mathematical Society.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Committee on Statistics

1594 Division of Mathematical Sciences
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1240

AREAS OF INTEREST: Statistical publications.

PUBLICATIONS: *Guide to Tables in Mathematical Statistics*; *Guide to Tables in the Theory of Numbers*.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Division of Physical Sciences

Committee on Line Spectra of the Elements

1595 Division of Physical Sciences
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1237

AREAS OF INTEREST: Atomic spectroscopy and closely related subjects. The Committee monitors current work and identifies future needs in research, education, training, and the publication of tables of data and indexes to the literature in this field.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals. Services are provided to qualified scientists on a time-available basis.

Committee on Nuclear Science

1596 Division of Physical Sciences
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1237

AREAS OF INTEREST: Nuclear geophysics; nuclear structure; radiochemistry; radiobiology; research reactors; effects of ionizing radiations; radiation instruments and techniques; low-level radiation contamination of materials and reagents; penetration of charged particles in matter; shipment of radioactive substances; radiation symbols, units, and nomenclature; use of radioactivity standards.

PUBLICATIONS: *Nuclear Science Series Reports*; *NAS-NS Monographs*; proceedings. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Committee on Polar Research

1597 Division of Physical Sciences
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1496

AREAS OF INTEREST: Research in the polar regions.

PUBLICATIONS: *Reports to SCAR* [Scientific Committee on Antarctic Research] *on United States Antarctic Research Activities* (annual); *Science in Antarctica, Part I: The Life Sciences in Antarctica* (1963) and *Part II: The Physical Sciences in Antarctica* (1961); *Science in the Arctic Ocean Basin* (1963); *Symposium on Antarctic Logistics...August 1962*.

INFORMATION SERVICES: Answers inquiries; makes referrals.

PANEL ON GLACIOLOGY

1598 Division of Physical Sciences
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1403

AREAS OF INTEREST: Polar glaciology (antarctic and arctic areas).

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries within the limits of available staff time.

Committee on Radio Frequency Requirements for Scientific Research

1599 Division of Physical Sciences
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1319

AREAS OF INTEREST: Allocation of radio frequencies for space science, radio astronomy, radar astronomy, and other research purposes.

PUBLICATIONS: *The Spectrum Window* (an occasional newsletter).

INFORMATION SERVICES: Answers inquiries and provides referral service for scientists with radio frequency requirements.

Committee on Symbols, Units, and Nomenclature

1600 Division of Physical Sciences
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1237

AREAS OF INTEREST: Standardization of symbols, units, and nomenclature in the physical sciences.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Geophysics Research Board

1601 Division of Physical Sciences
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1401

AREAS OF INTEREST: Geophysics and related fields; International Geophysical Year; International Years of the Quiet Sun; world magnetic surveys; solid earth geophysics; collection and dissemination of world geophysical data.

HOLDINGS: Index and file of documents related to the International Geophysical Year.

PUBLICATIONS: *United States IGY Bibliography 1953-1960*; *Annals of the International Geophysical Year*.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Panel on Solid State Sciences

1602 Division of Physical Sciences
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1237

AREAS OF INTEREST: The overall solid state sciences research situation in the United States, including its problems, personnel, instrumentation, and financing.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals. Services are provided to qualified scientists on a time-available basis.

Space Science Board

1603 Division of Physical Sciences
National Research Council
2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1457

AREAS OF INTEREST: Space science; rockets and satellites; bioastronautics.

PUBLICATIONS: *United States Space Science Program--Report to COSPAR* (annual); *Impact Acceleration Stress* (1962); *Science in Space* (1961); *Atmospheres of Mars and Venus* (1961); *Review of Space Research* (1962); *Space Research: Directions for the Future* (1966); *Biology and the Exploration of Mars* (1966); *Extraterrestrial Life, An Anthology and Bibliography* (1966); *Planetary Astronomy: An Appraisal of Ground-Based Opportunities* (1968); *Physiology in the Space Environment, Vol. 1: Circulation* (1968); *Physiology in the Space Environment, Vol. 2: Respiration* (1967).

INFORMATION SERVICES: Provides advice and recommendations to Government agencies and other institutions; exchanges scientific information with foreign space organizations and scientists.

NATIONAL RIVERS AND HARBORS CONGRESS

1604 1028 Connecticut Ave. NW., Suite 523-A
Washington, D.C. 20036
Tel: (202) 296-3116

All members of the U.S. Congress are ex-officio members of the National Rivers and Harbors Congress, and many ranking Senators and Representatives are officers and committee chairmen of the N.R. & H.C.

AREAS OF INTEREST: Nontechnical and legislative aspects of municipal and industrial water use, pollution abatement, irrigation and reclamation, inland navigation, power development, and flood control.

HOLDINGS: Reports, legislative documents.

INFORMATION SERVICES: Answers inquiries; permits onsite use of collection; provides guidance and advice on the proper processing of civil works construction projects.

NATIONAL RURAL ELECTRIC COOPERATIVE ASSOCIATION

1605 2000 Florida Ave. NW.
Washington, D.C. 20009
Tel: (202) 265-7400 Ext. 214

AREAS OF INTEREST: Rural electrification and related fields of interest, including Federal multiple-purpose resource development projects; electric power; electric utilities; rural electric cooperatives; water aspects of hydroelectric power.

HOLDINGS: 1,900 books; 500 periodicals; 450 newsletters; 1,800 pamphlets; bibliographies, press releases, clippings, publication lists, Congressional reports, hearings.

PUBLICATIONS: *Rural Electric Magazine* (monthly); *Rural Electric News Service* (newsletter).

INFORMATION SERVICES: Disseminates newsletter free to individuals or organizations active in the public power and utility fields; permits onsite use of literature collection.

NATIONAL SAFETY COUNCIL

Library

1606 National Safety Council
425 North Michigan Ave.
Chicago, Ill. 60611
Tel: (312) 527-4800

AREAS OF INTEREST: Accident prevention (on the job, on streets and highways, in the school, in the home, on the farm); driver education; safety research.

HOLDINGS: 6,500 books; 600 journals; 400,000 reports and studies; 44,000 photos; 250 rolls of microfilm; data, trade catalog of safety equipment.

PUBLICATIONS: *Guide to Traffic Safety Literature*; *Library Bulletin* (monthly); monthly listing of documents for two of the Council's major magazines: *National Safety News* and *Traffic Safety*.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services; provides duplication services for fee; lends materials under certain circumstances.

Facilities include a microfilm reader-printer, microfilm reader, and Xerox 3600I.

Safety Research Information Service

1607 National Safety Council
425 North Michigan Ave.
Chicago, Ill. 60611
Tel: (312) 527-4800

AREAS OF INTEREST: Safety; accidents; injuries; hazards; errors, protective devices.

HOLDINGS: About 3,000 abstracted research reports, of which 80 percent are related to traffic safety and 20 percent to industrial, home, public, school, and farm safety research; 100 periodical titles; 200 reference books.

PUBLICATIONS: Abstracts in the *Journal of Safety Research* (quarterly) and in *National Safety News* (monthly), both publications of the National Safety Council.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides advisory technical reference and literature-searching services and limited duplication services. Arrangements for formal exchange of information may be made.

Facilities include an IBM MTST, IBM 1130 computer, and microfiche and microfilm reader-printers.

Statistics Department

1608 National Safety Council
425 North Michigan Ave.
Chicago, Ill. 60611
Tel: (312) 527-4800

AREAS OF INTEREST: Published and unpublished information on safety and accident prevention, including all areas of safety at work, at school, in the home, and on the farm, as well as traffic and transportation.

PUBLICATIONS: *Accident Facts* (a statistical annual).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides data tabulations for various kinds of accidents on request.

NATIONAL SANITATION FOUNDATION

1609 P.O. Box 1468
Ann Arbor, Mich. 48106

Location:
2355 West Stadium Blvd.
Ann Arbor, Mich.
Tel: (313) 663-8581

AREAS OF INTEREST: Research, education, standards development, and service in relation to environmental quality (health, safety, salubrity); control of environmental pollution; community demonstration and consultation regarding achievement of environmental quality objectives; assistance to community colleges in preparing environmental technicians for environmental quality programs; health-safe food service equipment; plastic pipe and other plastic products or appurtenances used in potable water supply systems; personal dosimetry of ionizing radiation; health-safe equipment for treatment, circulation, and quality control of water in swimming pools; testing and evaluation of equipment, materials, and devices manufactured in conformance with NSF standards and criteria, including toxicological and organolytic evaluation of equipment or products.

PUBLICATIONS: Standards and criteria relating to areas of interest; listing of equipment or products found qualified to bear the nSf Seal; reports of special studies or research projects relating to health-safety, pollution control, general sanitation, and quality of the environment. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and testing services for fee.

The Foundation has general and sophisticated laboratory facilities for physical, biological, chemical, radiological, and related evaluations.

NATIONAL SCIENCE FOUNDATION

National and International Programs

Office of Polar Programs

1610 Polar Information Service
National Science Foundation
1800 G St. NW.
Washington, D.C. 20550
Tel: (202) 632-4220

AREAS OF INTEREST: Arctic and antarctic research projects (administration, expenditures, logistic support); geology, geodesy, meteorology, geophysics, oceanography, glaciology, upper atmosphere physics, biology, and medical sciences of the arctic and antarctic regions.

HOLDINGS: Literature, reports, maps, photos.

PUBLICATIONS: *Antarctic Journal of the United States* (bimonthly) and the following National Science

Foundation-sponsored publications: *Antarctic Research Series* (American Geophysical Union), *Antarctic Map Folio Series* (American Geophysical Society), and *Antarctic Bibliography* (Library of Congress); also translations of serials and monographs on polar research.

INFORMATION SERVICES: Serves as the clearinghouse and source of information regarding the existence and location of antarctic records, files, documents, and maps maintained within executive agencies and nongovernmental organizations; provides coordination in arctic information matters.

Office of Economic and Manpower Studies

1611 National Science Foundation
1800 G St. NW.
Washington, D.C. 20550
Tel: (202) 632-4168

AREAS OF INTEREST: Statistical and other information obtained through the conduct or support of a variety of descriptive, analytical, projective, and evaluative studies on science resources, e.g., R&D funding, scientific manpower, and science education.

PUBLICATIONS: Annual reports on the funding of Federal and industrial R&D activities of State governments, local governments, universities and colleges, and nonprofit institutions; biennial data from the National Register of Scientific and Technical Personnel; periodic reports on employment, utilization, and supply of scientific and technical personnel, including patterns of immigration; occasional reports on national R&D resources and science education data; special reports on Federal funding of academic science and other subjects.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides special compilations of data.

NATIONAL SECURITY INDUSTRIAL ASSOCIATION

1612 740 15th St. NW.
Washington, D.C. 20005
Tel: (202) 393-3620

AREAS OF INTEREST: Coordination between the defense establishment and industry regarding techniques and products affecting antisubmarine warfare, food (recipes, commissary equipment, mass serving techniques, etc.), maintenance, packaging, materials handling and transportation, ocean science and technology, procurement, quality and reliability assurance, research and engineering, technical information, and training of personnel.

HOLDINGS: Reports, proceedings.

PUBLICATIONS: *NSIA News* (monthly); pamphlets, reports.

INFORMATION SERVICES: Answers brief inquiries; conducts educational seminars, symposia, and briefings, and visits to major DoD and NASA installations.

NATIONAL SEVERE STORMS FORECAST CENTER

see Commerce, Department of. Environmental Science Services Administration. Weather Bureau

NATIONAL SEVERE STORMS LABORATORY

see Commerce, Department of. Environmental Science Services Administration. Research Laboratories

NATIONAL SLAG ASSOCIATION

1613 300 South Washington St.
Alexandria, Va. 22314
Tel: (703) 549-3111

AREAS OF INTEREST: Processing and utilization of slags formed during the production of iron in blast furnaces and steel in open hearth, basic oxygen, and electric furnaces; physical and chemical characteristics; methods of cooling and digging; techniques for converting to expanded (lightweight) and granulated products; crushing, screening, and iron removal; specifications and quality control testing; use in a wide variety of applications, e.g., concrete and bituminous concrete, masonry block, cement, glass, insulating wool, railroad ballast, filter media, agriculture, roofing, and bases.

HOLDINGS: Reports, journals, reprints, patents, films, photos, maps, charts, data. The collection includes material extending back to 1918.

PUBLICATIONS: Slag textbook; general bulletins on characteristics and uses of air cooled, expanded, and granulated slags; technical bulletins on individual uses; technical reports, specifications.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and reference services.

NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS

1614 2029 K St. NW.
Washington, D.C. 20006
Tel: (202) 337-0420

AREAS OF INTEREST: Vocational guidance for engineering as a career; social, professional, ethical, and economic considerations of engineering as a profession.

HOLDINGS: Journals, reports.

PUBLICATIONS: *Professional Engineer* (monthly); *Engineers in Government Newsletter* (monthly); *Professional Engineer in Industry Newsletter* (monthly); *Legislative Bulletin* (monthly); *Private Practice News* (monthly); *Roster of Professional Engineers in Private Practice* (indexed according to specialization); *Engineer in Government Newsletter* (quarterly); pamphlets, reports. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals.

NATIONAL SOFT DRINK ASSOCIATION

1615 1128 16th St. NW.
Washington, D.C. 20006
Tel: (202) 638-2757

AREAS OF INTEREST: Carbonated soft drinks; nutrition; dental caries; water purity; sugar; synthetic sweeteners; sanitation; equipment; plant layout.

PUBLICATIONS: Brochures.

INFORMATION SERVICES: Answers inquiries.

NATIONAL SPACE SCIENCE DATA CENTER

see National Aeronautics and Space Administration. Office of Space Science and Applications

NATIONAL SPRAY PAINTING AND FINISHING EQUIPMENT ASSOCIATION

1616 300 Phillips Ave.
Toledo, Ohio 43601
Tel: (419) 474-5411

AREAS OF INTEREST: Spray painting; metal cleaning equipment; ovens; spray booths; air replacement systems.

HOLDINGS: Reports, periodicals, booklets, clippings.

INFORMATION SERVICES: Answers inquiries; makes referrals.

NATIONAL TECHNICAL INFORMATION SERVICE

see Commerce, Department of

NATIONAL TRAFFIC SAFETY BUREAU

see Transportation, Department of

NATIONAL TRANSPORTATION SAFETY BOARD

see Transportation, Department of

NATIONAL WATER COMPANY CONFERENCE

1617 P.O. Box 387
Washington, D.C. 20044

Location:

952 Pennsylvania Bldg.
Washington, D.C.
Tel: (202) 638-3461

The Conference is a trade association of about 500 privately-owned water utilities in the United States, with about an equal number of individual associate members.

AREAS OF INTEREST: Privately-owned water utilities in the United States; economic, legal, and regulatory developments and trends affecting water utilities.

PUBLICATIONS: *Conference Quarterly*; "Free Flow" (an occasional bulletin); proceedings of Conference's annual meeting.

INFORMATION SERVICES: Answers brief inquiries concerning the Conference's program and/or matters pertaining to investor-owned water utilities; provides copies of proceedings of annual meeting, free on request.

NATIONAL WATER INSTITUTE

1618 744 Broad St., Room 3405
Newark, N.J. 07102

Tel: (201) 623-1727

The Institute is the public relations arm of the Water and Wastewater Equipment Manufacturers Association; its activities are conducted chiefly for the layman, the press, radio, and television.

AREAS OF INTEREST: Equipment for water and wastewater fields.

HOLDINGS: Booklets, pamphlets, motion pictures.

PUBLICATIONS: Booklets, pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; distributes motion pictures, pamphlets, and booklets.

NATIONAL WATER QUALITY LABORATORY

see Interior, Department of the. Federal Water Quality Administration

NATIONAL WATER WELL ASSOCIATION

1619 88 East Broad St.
Columbus, Ohio 43215
Tel: (614) 224-6241

AREAS OF INTEREST: Water well drilling; ground water and recharge; hydrogeology; irrigation; water pollution control and abatement; salt water intrusion; surface engineering; water conservation; water economics; water law; water purification; water requirements; water use; rural water supply; water resources research, planning, management, and legislation.

PUBLICATIONS: *Water Well Journal* (monthly); *Ground Water* (quarterly journal); *Newsletter* (12 issues a year); promotional booklets, sample water-well drilling contract forms.

INFORMATION SERVICES: Provides limited technical information in response to inquiries; conducts annual fall exposition for the demonstration of new products and the presentation of technical papers.

NATIONAL WATERWAYS CONFERENCE, INC.

1620 1130 17th St. NW., Suite 200
Washington, D.C. 20036
Tel: (202) 638-0090

AREAS OF INTEREST: Waterway economics; water transportation; water resource development; evaluation of proposed waterway projects; economic significance of river and harbor projects; waterway tolls and user charges; water resource standards and criteria; public value of water resource projects, including social benefits.

HOLDINGS: Small collection of books, periodicals, and reports.

PUBLICATIONS: *Newsletter* (monthly); *Criteria News* (irregular); annual meeting proceedings; *The Origin and Development of the Waterways Policy of the United States* (1967); *The Impact of Waterway User Charges: An Industry-By-Industry Assessment* (1968); *A Water Development Program for America's Future* (1969); various other leaflets and brochures.

INFORMATION SERVICES: Answers inquiries; makes referrals to primary sources; provides consulting services.

NATIONAL WOODEN PALLET AND CONTAINER ASSOCIATION

1621 1619 Massachusetts Ave. NW.
Washington, D.C. 20036
Tel: (202) 667-3670

The Association serves industry as an international information bank and clearinghouse for data on the science of unitation of goods, palletization, and use of wooden containers.

AREAS OF INTEREST: Technical and promotional information on the manufacture and use of wooden pallets, containers, and related products.

HOLDINGS: Small collection of periodicals, standards, specifications, and related literature.

PUBLICATIONS: Newsletter (for members), handbooks, specifications, technical pamphlet and leaflet. A publications list is available.

INFORMATION SERVICES: Answers inquiries from members and nonmembers; provides technical literature and advice to wooden pallet and container users and those interested in the industry.

NATIONAL WOODWORK MANUFACTURERS ASSOCIATION

1622 400 West Madison St.
Chicago, Ill. 60607
Tel: (312) 782-6232

AREAS OF INTEREST: Wooden windows, doors, and frames, and their treatment with preservatives.

HOLDINGS: Technical reports, data.

PUBLICATIONS: Technical reports, proceedings, standards and specifications, data handbook, directory.

INFORMATION SERVICES: Answers inquiries.

NATURAL GAS PROCESSORS ASSOCIATION

1623 808 Home Federal Bldg.
Tulsa, Okla. 74103
Tel: (918) 582-5112

AREAS OF INTEREST: Natural gas liquids manufacturing, including specifications and product utilization; thermodynamic research.

HOLDINGS: Small working collection of books, periodicals, and reports.

PUBLICATIONS. Periodicals, reports, books, bibliographies, specifications, proceedings.

INFORMATION SERVICES: Answers inquiries; provides consulting services. Services are provided free to some users and at cost to others.

NATURAL RUBBER BUREAU

1624 1108 16th St. NW.
Washington, D.C. 20036
Tel: (202) 783-8282

Sponsored by the Malayan Rubber Fund Board, this Bureau is one of 11 such international research information centers.

AREAS OF INTEREST: Natural rubber, its production and utilization; latex; foam rubber.

PUBLICATIONS: *Natural Rubber News* (monthly); *Rubber Developments* (quarterly); bulletins, booklets, maps, charts, photos, films.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite reference to Bureau publications.

NAUTICAL RESEARCH GUILD, INC.

1625 10012 Portland Pl.
Silver Spring, Md. 20901
Tel: (301) 593-4782

AREAS OF INTEREST: History of ship types and their development; details of fittings for hull and rigging; history of individuals and institutions related to the sea and other marine endeavors. Emphasis is on the research required for the development and construction of accurately scaled models of ships and ship fittings for those interested in ship model-making as an art form and a hobby.

HOLDINGS: 5,000 books; 300 periodicals; 250 photos; 550 feet of 35mm copy film of rare books; 90 publication lists; 150 pamphlets; ships plans register, standards and specifications, ship components (U.S.N.); bibliographies, clippings.

PUBLICATIONS: *Nautical Research Journal* (quarterly).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and limited bibliographic services; identifies ship models by determining type, period of construction, and possible name; provides copying services to members only.

NAVY, DEPARTMENT OF THE

Atlantic Fleet

Commander Operational Test and Evaluation Force

1626 Department of the Navy
Norfolk, Va. 23511
Tel: (703) 444-5546

AREAS OF INTEREST: Weapons; naval support systems; underwater and surface warfare; air warfare; electronics (command and control).

HOLDINGS: 20,000 reports and technical documents.

INFORMATION SERVICES: Answers requests for documents; prepares bibliographies. Users must assure proper handling and storage for classified documents and certify need-to-know for most documents.

Submarine Library and Museum

1627 Gilmore Hall
Box 157, U.S. Naval Submarine Base
New London, Groton, Conn. 06340
Tel: (203) 449-3175

AREAS OF INTEREST: Submarine history and development, including the history of naval and non-naval submersibles throughout the world.

HOLDINGS: Models depicting submarine hull development, cutaway models, and simulators; a unique collection of submarine literature, photographs, and memorabilia, including original battleflags, pennants, paintings, drawings, diaries, and correspondence.

PUBLICATIONS: Data books, listing all submarines; bibliographies.

INFORMATION SERVICES: Answers inquiries; provides reference, literature-searching, and duplication services; makes interlibrary loans; permits onsite reference by prior arrangement. The Library welcomes reference letters and questions and will provide accurate and annotated answers on all phases of submarine history and development.

Bureau of Medicine and Surgery

Health Practices Branch, Environmental Sanitation Section

1628 Bureau of Medicine and Surgery
Department of the Navy
23d and E Sts. NW.
Washington, D.C. 20390
Tel: (202) 696-6414 or 696-3854

AREAS OF INTEREST: Environmental sanitation as related to the U S. Navy.

PUBLICATIONS: Manuals, directories.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides advisory and consulting services to agencies and individuals with pertinent professional interests.

Bureau of Naval Personnel

Naval Damage Control Training Center

1629 U.S. Naval Base
Philadelphia, Pa. 19112
Tel: (215) 755-3728

AREAS OF INTEREST: All aspects of damage control, including stability and buoyancy of ships, practical damage control, and firefighting; nuclear, biological, and chemical defense.

HOLDINGS: Books, periodicals, technical reports.

INFORMATION SERVICES: Answers inquiries; provides reference services. Services are available to Department of Defense and civil defense personnel, and to selected civilian personnel as authorized by the Chief of Naval Personnel.

Naval Schools, Mine Warfare

1630 Naval Base
Charleston, S.C. 29408
Tel: (803) 743-3741

AREAS OF INTEREST: Mines; minefield planning; mine hunting equipment and procedures; mine countermeasures equipment and procedures; ranging and degaussing equipment and procedures; mine sweeper engineering systems.

HOLDINGS: Books, periodicals, and technical reports, on all aspects of mine warfare and related subjects.

PUBLICATIONS: Term papers and mine warfare curriculums.

INFORMATION SERVICES: Answers inquiries; provides advisory services. Services are available only to Department of Defense personnel and other persons with a certified need-to-know and security clearance. Requests for certification of need-to-know must be submitted to the Bureau of Naval Personnel (Pers C 148).

U.S. Naval Destroyer School

1631 Newport, R.I. 02884
Tel: (401) 841-2661

AREAS OF INTEREST: Naval destroyer communications, electronic countermeasure, and radar systems, including communication broadcasts, procedures, registered publications, security, equipments, message formats, and operational reports; ECM and radar equipments, displays, and reports; basic destroyer maneuvering, ship-handling, and tactics; basic navigation; rules of the road; naval gunfire support; AAW and ASW concepts, procedures, and tactics; fleet and type organization, military planning, and operational readiness; general line areas of intelligence, leadership, supply, military justice, and administration; destroyer engineering systems, including 600 p.s.i.g. systems, automatic combustion control, boilers, turbines, fuel oil and feedwater pumps, electrical, interior communications, and degaussing installations, fuel oil transfer and ballast systems, nuclear, biological, and chemical defense, diesels, compressors and refrigeration, gyros, boiler-water/feedwater, distillate fuels, bunker fuels, and shipboard damage controls; destroyer weapons systems, including theory of gunnery fire control, gun fire control systems, five- and three-inch caliber guns and associated equipment, gun ammunition, shipboard magazines systems, underwater sensors (SONAR), torpedo launching systems, drone antisubmarine helicopter, underwater battery fire control systems, antisubmarine torpedoes, antisubmarine rocket-thrown torpedo, theory of surface-to-air guided missile fire control systems, guided missile launching systems, and guided missile fire control designation systems.

HOLDINGS: Over 50 operation orders and plans, 140 operation publications, and 70 Navy training films pertaining to destroyer operations, systems, procedures, and theories; 2,500 destroyer engineering system pamphlets and engineering data publications and over 750 Navy training films pertaining to the theory, operation, repair, and maintenance of destroyer engineering systems; over 100 ordnance pamphlets and ordnance data publications and 110 Navy training films pertaining to the theory, operation, and maintenance of destroyer naval weapons and weapons systems.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services.

Chief of Naval Operations

Naval War College Libraries

1632 U.S. Naval War College
Newport, R.I. 02840
Tel: (401) 841-2641

AREAS OF INTEREST: All fields of knowledge except literature and the fine arts, with emphasis on military and naval history and science, and international law and relations.

HOLDINGS: 250,000 books; 1,000 periodical titles; 80,000 technical reports.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans. Requests to use the collections for specific research projects are considered on an individual basis.

Marine Corps Development and Education Command

J. C. Breckinridge Library

1633 Marine Corps Education Center
Marine Corps Development and Education Command
Quantico, Va. 22134
Tel: (703) 640-2248

AREAS OF INTEREST: Military art and science; amphibious operations; doctrine, tactics, techniques, and equipment employed by amphibious landing forces.

HOLDINGS: 43,000 books and 16,000 reports, including a comprehensive collection of books and documents on amphibious operations; 275,000 security classified report collection administered by Classified Control Center.

PUBLICATIONS: Bibliographies, acquisitions lists.

INFORMATION SERVICES: Answers inquiries; provides reference services; makes interlibrary loans. Services are primarily for staff, students, and research personnel of the agency; public use of the collections is limited.

Naval Academy Library

1634 U.S. Naval Academy
Annapolis, Md. 21402
Tel: (301) 268-7711

AREAS OF INTEREST: Naval history and technology; international law.

HOLDINGS: 200,000 books and bound periodicals; 5,000 reels of microfilm.

PUBLICATIONS: Acquisitions list (biweekly).

INFORMATION SERVICES: Makes interlibrary loans. Library services are primarily for Academy personnel, but the collections are accessible for onsite use by serious researchers.

Naval Air Systems Command

Naval Aerospace Recovery Facility

1635 El Centro, Calif. 92243
Tel: (714) 353-2401

AREAS OF INTEREST: Parachutes and related assemblies; human escape methods and systems; retardation and recovery systems; rescue, survival, and personnel safety equipment; stabilization, retardation, and recovery systems for lay-down type weapons and for aircraft, missile, and capsule assemblies; logistics of special aerial delivery methods, techniques, and equipment; airborne biomedical research.

HOLDINGS: Books, periodicals, reports.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; provides advisory and consulting services. Services are available to all units of the Navy, other Government agencies, and qualified contractors holding a Navy contract.

Facilities include an instrumented drop test range, a class "G" Navy photographic laboratory, a materials testing laboratory, an industrial shops complex for prototype manufacturing, a whirl tower test facility, various flight test support aircraft, manned parachute test capability, and a parachute fabrication and packing facility.

Naval Air Engineering Center Technical Library

1636 Philadelphia, Pa. 19112
Tel: (215) 755-3137

AREAS OF INTEREST: Aerodynamics; mechanical engineering; guided missiles; weapons systems; ground support equipment.

HOLDINGS: 10,000 books; 285 journals; 90,000 technical reports.

INFORMATION SERVICES: Makes interlibrary loans to Federal activities.

Naval Air Propulsion Test Center Technical Library

1637 P.O. Box 176
Trenton, N.J. 08628
Tel: (609) 822-1414 Ext. 226

AREAS OF INTEREST: Aerospace engineering; gas turbines (aircraft); turbojet-, turboshaft-, and turboprop-engines; airbreathing powerplants (aircraft).

HOLDINGS: Books, periodicals, documents, bibliographies.

INFORMATION SERVICES: Provides library services to Center personnel, Government contractors with special needs, and other qualified users, subject to security clearance and need-to-know; makes interlibrary loans.

Naval Air Test Center

1638 Patuxent River, Md. 20670
Tel: (301) 863-4207

AREAS OF INTEREST: Military aircraft and aircraft weapons systems (test and evaluation, operational concepts, supporting equipment).

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Answers inquiries; makes referrals to specialists on the staff and provides advisory services, subject to security restrictions.

Naval Air Test Facility

LIBRARY AND TECHNICAL FILES OFFICE

1639 Naval Air Test Facility
Lakehurst, N.J. 08753
Tel: (201) 657-4411

AREAS OF INTEREST: Naval aviation testing.

HOLDINGS: Books, periodicals, technical reports.

INFORMATION SERVICES: Provides library services, subject to security restrictions.

Naval Missile Center

LIBRARY BRANCH

1640 Code 5632
Naval Missile Center
Point Mugu, Calif. 93041
Tel: (805) 982-8192

AREAS OF INTEREST: Guided missile instrumentation, propellants, and propulsion; aerodynamics; human engineering; oceanography; meteorology; mathematics; geography.

HOLDINGS: About 32,000 books, 125,000 reports, and 650 periodical titles.

PUBLICATIONS: Monthly book and report lists; bibliographies.

INFORMATION SERVICES: Provides library services, subject to security clearance and need-to-know.

Naval Weapons Center

LIBRARY DIVISION

1641 Technical Information Department
Naval Weapons Center
China Lake, Calif. 93555
Tel: (714) 375-1411 Ext. 2507

AREAS OF INTEREST: Naval ordnance, missiles, airborne weapons, and aircraft fire control systems; propulsion systems; propellants, explosives, and infrared technology; pyrotechnics; ballistics; mathematics; chemistry; physics; aerodynamics; electronics.

HOLDINGS: 180,000 technical reports; 50,000 books and bound journals; 800 current periodicals.

INFORMATION SERVICES: Makes interlibrary loans; provides library services to Center personnel and contractors with security clearance and a need-to-know.

Technical Library Division

1642 Naval Air Systems Command (AIR-604)
Washington, D.C. 20360
Tel: (202) 692-7836

AREAS OF INTEREST: Aeronautics; aerodynamics; military science; naval science; electronics; physics; mathematics; explosives chemistry.

HOLDINGS: 15,000 books; 500 periodical titles; 200,000 technical reports.

PUBLICATIONS: Reports, handbooks, manuals, bibliographies, specifications.

INFORMATION SERVICES: Answers inquiries; provides reference and limited literature-searching services for Department of Defense agencies and their contractors; makes interlibrary loans; provides some library services for the general public on aviation historical matters.

Naval Aviation Museum

1643 U.S. Naval Air Station
Pensacola, Fla. 32508
Tel: (904) 452-3543

AREAS OF INTEREST: Selection, collection, preservation, and display of historic and inspirational memorabilia of the origin, development, and historic heritage of naval aviation.

HOLDINGS: Full-scale (and models of) naval operational aircraft; other exhibits memorializing naval aviation pioneers and heroes, the planes they flew, their history-making battles, and other events.

INFORMATION SERVICES: Furnishes information as available on naval aviation personnel and history, by mail, telephone, or in person. The library and archives are accessible for onsite examination and study.

Naval Facilities Engineering Command

Directorate of Programs

SUPPORT GROUP

Documentation Systems Division

1644 Naval Facilities Engineering Command
Yards and Docks Annex, Room 1B77
Memorial Dr. and H Rd.
Washington, D.C. 20390
Tel: (202) 697-6268 or 697-2819

AREAS OF INTEREST: Engineering, including civil, mechanical, and structural; marine biology; transportation; oceanography; nuclear power; radiology; isotopes; reactors; nucleonics; civil and environmental research; deep ocean and waterfront research; electric and electronics systems; signal and protection systems; illumination and lighting; power distribution; communications systems; protective construction; soil mechanics and paving; internal combustion power plants; steam power plants; pavement and earth structures; pollution abatement; floating structures; architecture; hospital and medical facilities; special environments; weapons systems; cold regions facilities.

HOLDINGS: 2,000 books; 1,200 standards and specifications; 12,000 slides; 105mm film file of engineering drawings and maps.

PUBLICATIONS: *Navy Civil Engineer* (monthly); design manuals, maintenance and operations manuals, P numbered publications, special reports, brochures, motion pictures, indexes of collections.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Disaster Control Division

1645 Code 066
Naval Facilities Engineering Command
Department of the Navy
Washington, D.C. 20390
Tel: (202) 697-3194

AREAS OF INTEREST: Disaster control; nuclear-biological-chemical warfare defense; mechanical features of protective construction.

HOLDINGS: 1,000 books; 50 periodicals; 1,000 reports.

PUBLICATIONS: Manuals.

INFORMATION SERVICES: Answers inquiries; provides consulting services without charge to Government agencies and their contractors.

Public Affairs Office

1646 Naval Facilities Engineering Command
Yards and Docks Annex, Room 2B37
Memorial Dr. and H Rd.
Arlington, Va. 20390
Tel: (202) 697-4892

AREAS OF INTEREST: Planning and design of naval shore establishments; civil engineering; construction of facilities (navy yards, docks, airfields, etc.).

PUBLICATIONS: *The Navy Civil Engineer* (monthly).

INFORMATION SERVICES: Answers inquiries; makes referrals; prepares exhibits and other visual aids.

Technical Library

1647 Naval Facilities Engineering Command
Washington, D.C. 20390

Location:

Yards and Docks Annex, Room 1C29
Memorial Dr. and H Rd.
Arlington, Va.
Tel: (202) 697-6294

AREAS OF INTEREST: Civil, mechanical, sanitary, electrical, and structural engineering; mathematics; chemistry; physics; nucleonics as related to engineering.

HOLDINGS: 13,000 volumes; a vertical file of about 20,000 items; 2,000 technical reports; 400 technical periodical titles.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference by Government personnel.

U.S. Naval Construction Battalion Center Technical Library

1648 Davisville, R.I. 02854
Tel: (401) 267-2176

AREAS OF INTEREST: Mechanical, electrical, structural, and civil engineering; cold weather engineering.

HOLDINGS: 500 books; 75 periodical titles; 500 reports; manufacturers' catalogs, construction equipment maintenance manuals, specifications and standards for DoD standardization program.

PUBLICATIONS: Prepares standardization documents.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, and duplication services; makes referrals; lends materials; permits onsite use of collection.

Naval Material Command

Naval Electronics Laboratory Center

RESEARCH LIBRARY

1649 Naval Electronics Laboratory Center
271 Catalina Blvd. (Point Loma)
San Diego, Calif. 92152
Tel: (714) 225-6623

AREAS OF INTEREST: Electronics; physics; mathematics; statistics; oceanography; undersea technology; communications engineering; radio; radar; sonar; instrumentation; geology; geophysics; applied psychology.

HOLDINGS: 34,000 books; 24,000 bound volumes of journals; 1,200 periodical subscriptions; 90,000 technical reports.

PUBLICATIONS: Periodical lists, bibliographies.

INFORMATION SERVICES: Answers inquiries from Department of Defense contractors; makes interlibrary loans; permits onsite reference, subject to security clearance and approval by the Librarian.

Naval Ship Research and Development Center

ANNAPOLIS DIVISION

Technical Library

1650 Code A214
Naval Ship Research and Development
Laboratory
Annapolis, Md. 21402
Tel: (301) 268-7711 Ext. 8201

AREAS OF INTEREST: Electrical, marine, and mechanical engineering; noise reduction; applied mechanics; metallurgy; instrumentation; chemistry; fuels; lubricants; acoustics; analytical mechanics.

HOLDINGS: 35,000 technical reports; 12,500 books; 2,800 bound volumes of periodicals; standards and specifications.

INFORMATION SERVICES: Provides duplication services; makes interlibrary loans; permits onsite reference, subject to security clearance and approval of the librarian.

Naval Training Device Center

MANPOWER, MANAGEMENT AND SUPPORT DIRECTORATE

Technical Information and Public Affairs Department

1651 Naval Training Device Center
Orlando, Fla. 32813
Tel: (305) 646-4500 or 646-4319

AREAS OF INTEREST: Military training devices and training device technology; simulation of military equipment; air, land, and surface and undersea warfare; advanced systems engineering; aeronautics; avionics; behavioral sciences; computers; electronics and electrical engineering; missile technology; navigation; communication; detection; countermeasures; oceanography; ordnance; visual systems.

HOLDINGS: A technical library of about 5,000 books, 250 periodicals, and 30,000 reports, including the periodicals, handbooks, and technical reports of the Center from 1941 to the present; a collection of slides and viewgraphs.

PUBLICATIONS: *Center Profile*; *Centerline*; *Training Device Developments*; *Field Service Bulletin*; *Index of Training Device Publications*; *Bibliography of Unclassified Human Engineering Reports*; library accessions list, technical reports and abstracts of technical reports, handbooks, selected articles in technical publications.

INFORMATION SERVICES: Answers brief technical inquiries regarding current research; makes referrals; conducts tours of the Center for educational groups; maintains a demonstration area at the Center; exhibits at selected sites; makes interlibrary loans (other library services are limited to Center and contractor personnel). The collections are accessible for onsite use by Department of Defense personnel and contractors by prior arrangement when the information is not obtainable elsewhere.

Naval Weapons Laboratory Technical Library Automated Programs

TECHNICAL LIBRARY

1652 U.S. Naval Weapons Laboratory
Dahlgren, Va. 22448
Tel: (703) 663-8351

AREAS OF INTEREST: Computational mathematics; data processing; ordnance; exterior ballistics; astronautics; ballistic systems for missiles, bombs, rockets, projectiles, and other weapons; electromagnetic radiation; biological warfare; chemical warfare; missile safety; limited warfare; management; physics; chemistry; meteorology; metallurgy; electronics; Navy fire control systems.

HOLDINGS: 28,500 books; 1,400 journal subscriptions; 3,700 bound volumes of journals and 6,000 back files on microfilm; 115,000 documents (90,000 on microfiche); 5,000 OP manuals; 5,000 NavAir manuals; Dun & Bradstreet services; 5,000 manufacturer's catalogs; 6,000 specifications, including military, Federal, and commercial; college catalogs, coded laser abstracts on notched cards, complete chemical abstracts on microfilm cartridges, extensive open literature searching collection, Computer Math Library, Chemistry Metallurgy Library, Management Library.

PUBLICATIONS: *Book Accession Bulletin*; *Periodical Holdings*; *KWIK Handbook of Book Card Catalog*; *KWIK Index of NWL Reports and Memos*; *Literature Searching Collection--Open and Classified*; *Technical Information Handling at NWL*; *Microfiche Usage at NWL.*

INFORMATION SERVICES: Answers inquiries, makes referrals, and provides reference and literature-searching services for Laboratory personnel, its contractors, and others with a need-to-know; makes interlibrary loans of unclassified materials.

Facilities include an IBM Document Writing System 870, an IBM 029 key punch, a Kalvar copier for microfiche, five 3M microfiche reader/printers, 200 portable microfiche readers, and a VSMF microfiche cartridge system.

Naval Observatory

1653 Massachusetts Ave. and 34th St. NW.
Washington, D.C. 20390
Tel: (202) 696-8420 (Library)

AREAS OF INTEREST: Celestial navigation; time determination; astronomy; celestial mechanics; astrophysics; mathematics; geodesy.

HOLDINGS: 60,000 volumes, including long runs of 18th and 19th century publications; rare book collection of 700 volumes on astronomy and mathematics published before 1800; astronomical maps and photographs; nautical almanacs of all countries.

PUBLICATIONS: *The American Ephemeris and Nautical Almanac* (annual); *The Air Almanac* (3 times a year); *Astronomical Papers* (irregular); *Publications of the U.S. Naval Observatory* (irregular); *Reprints, U.S. Naval Observatory* (irregular).

INFORMATION SERVICES: Answers inquiries; provides consulting services to scientists, engineers, and Government contractors; makes interlibrary loans; permits onsite reference.

Naval Ordnance Systems Command

Naval Avionics Facility

TECHNICAL LIBRARY

1654 Naval Avionics Facility
Indianapolis, Ind. 46218
Tel: (317) 353-3232

AREAS OF INTEREST: Avionics; aeronautics; aerospace engineering; optics; electrical engineering; mathematics; metallurgy.

HOLDINGS: 50,000 reports; 11,000 books; 400 periodical titles; Visual Search Microfilm File (VSMF) of DoD military specifications and drawings, (design engineering and documentation files); National Aeronautical Space (NAS) microfilm file of military specifications, drawings, and standards.

PUBLICATIONS: Bibliographies, reports (classified and unclassified).

INFORMATION SERVICES: Makes interlibrary loans of books and periodicals.

Naval Mine Engineering Facility

1655 Yorktown, Va. 23491
Tel: (703) 887-2411 Ext. 670

AREAS OF INTEREST: Underwater mine and depth charge weapon systems.

HOLDINGS: 50,000 Design Disclosures and associated Technical Documentation and Specifications.

PUBLICATIONS: *The Troubleshooter* (quarterly); technical manuals.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services. Security clearance and need-to-know are required for access to classified information.

Naval Ordnance Laboratory (White Oak)

1656 Silver Spring, Md. 20910
Tel: (301) 495-7736 or 495-7517

AREAS OF INTEREST: Engineering; electronics; acoustics; plastics; aerodynamics; explosives; materials; underwater detection; communication.

HOLDINGS: 45,000 books and bound periodicals; 750 periodical titles; 200,000 technical reports (170,000 on microfilm).

INFORMATION SERVICES: Answers inquiries; makes referrals.

Facilities include microfilm readers and reader-printers.

LIBRARY DIVISION

1657 Naval Ordnance Laboratory
White Oak, Silver Spring, Md. 20910
Tel: (301) 495-7550

AREAS OF INTEREST: Engineering; electronics; acoustics; plastics; aerodynamics; explosives; materials; underwater detection; communication.

HOLDINGS: 30,000 books; 900 journal titles; 125,000 technical reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference, literature-searching, indexing, translating, and photocopying services; makes interlibrary loans. Services are available to Government agencies only.

Naval Ordnance Station Library

1658 Louisville, Ky. 40214
Tel: (502) 361-2641 Ext. 424

AREAS OF INTEREST: Mechanical, electrical, and aeronautical engineering; mathematics and physics; electronics; metallurgy and materials science; chemistry.

HOLDINGS: 1,000 books; 100 periodical titles; 1,000 reports.

INFORMATION SERVICES: Makes interlibrary loans to Government agencies.

Naval Ordnance Station Technical Library

1659 Indian Head, Md. 20640
Tel: (301) 743-5511 Ext. 7104

AREAS OF INTEREST: Explosives and propellants; chemistry; engineering.

HOLDINGS: Books, journals, technical reports.

PUBLICATIONS: Accessions list (weekly).

INFORMATION SERVICES: Makes interlibrary loans to Government agencies.

Naval Underwater Systems Center Library, Newport

1660 Newport, R.I. 02840
Tel: (401) 841-4421

AREAS OF INTEREST: Underwater acoustics; mechanical engineering; electronics; propellants; oceanography; deep water ranges; propulsion; noise; chemistry; physics; mathematics; automation; metallurgy; underwater ordnance; torpedoes; fire control systems; antisubmarine warfare; underwater sound.

HOLDINGS: 12,000 books; 400 periodical titles; 100,000 technical reports; 10,000 documents on microfiche and microfilm.

PUBLICATIONS: Reports, abstracts, accessions lists, specifications, publications relating to the Station's antisubmarine warfare responsibilities, 1970 list of periodical holdings.

INFORMATION SERVICES: Provides library services for Station employees and for contractors with a need-to-know; makes interlibrary loans of books and periodicals.

Naval Reconnaissance and Technical Support Center Library

1661 4301 Suitland Rd.
Washington, D.C. 20390
Tel: (301) 763-2200

AREAS OF INTEREST: Reconnaissance and surveillance technology; airborne reconnaissance equipment; infrared sensor systems; photography and radar; image exploitation; photogrammetry; terrain model making; data processing; information storage and retrieval; research, development, testing, and evaluation of image exploitation equipment, materials, and techniques.

HOLDINGS: 5,000 volumes; 180 current periodicals; large collection of classified documents, reports, and technical publications.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite use of literature collection by Government personnel with proper security clearance.

Naval Ship Engineering Center, Philadelphia Division

Technical Library

1662 Naval Ship Engineering Center, Philadelphia Division
Philadelphia, Pa. 19112
Tel: (215) 755-3922

AREAS OF INTEREST: Applied research, development, test, evaluation, and maintenance engineering for the following marine machinery systems and various technical fields: steam generators; refractories; deaerating feed tanks; combustion devices; associated boiler room auxiliaries and components; main propulsion turbines; internal combustion engines; reduction gears; turbogenerators; associated engine room auxiliaries; hull machinery accessories and components; test instruments and instrumentation methods and the design and operation of instrumentation systems; fuels, lubricants, and chemicals required for solution of fleet operating problems and the application of instrumental and wet techniques for identification and analysis of materials; automated systems for ship propulsion plants; product assurance engineering; dependability engineering; value engineering; and installation, improvement, maintenance, and quality assurance of submarine antenna systems.

HOLDINGS: Books, journals, technical reports, catalogs, manufacturers' technical manuals.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference, subject to security clearance and approval of the librarian.

Naval Ship Research and Development Center

Navy Mine Defense Laboratory Technical Library

1663 Highway 98
Panama City, Fla. 32401
Tel: (904) 234-2281

AREAS OF INTEREST: Mine and torpedo countermeasures; acoustics; electromagnetic phenomena; inshore warfare; swimmer/diver; man in the sea; oceanography.

HOLDINGS: Books, journals, technical reports.

INFORMATION SERVICES: Provides reference, literature-searching, bibliographic, and interlibrary loan services; permits onsite reference, subject to security clearance and approval of the librarian.

Naval Ship Systems Command

Boston Naval Shipyard Technical Library

1664 Boston Naval Shipyard (Code 245)
Design Division, Building 39
Boston, Mass. 02129
Tel: (617) 242-1400 Ext. 2358

AREAS OF INTEREST: Naval architecture; marine, mechanical, electrical, electronic, and general engineering; physics; photography; drawing; chemistry; mathematics; explosives; fuels; gases; metallurgy; management.

HOLDINGS: Books, journals, technical reports, technical magazines, pamphlets, standards, material specifications, detail specifications, general specifications, articles (clipped and reproductions).

PUBLICATIONS: Acquisitions bulletin (monthly).

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference (limited to authorized individuals in accordance with security regulations).

Charleston Naval Shipyard Technical Library

1665 Charleston Naval Shipyard
Naval Base
Charleston, S.C. 29408
Tel: (803) 747-4171

AREAS OF INTEREST: Shipbuilding technology; mechanical, electrical, civil, and marine engineering; plant maintenance and management; patents; electronics; sonar; radar.

HOLDINGS: Books, journals, technical reports.

PUBLICATIONS: Accessions lists.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference, subject to security clearance and approval of the librarian.

Hunters Point Naval Shipyard

TECHNICAL LIBRARY

1666 Hunters Point Naval Shipyard
San Francisco, Calif. 94135
Tel: (415) 641-3050

AREAS OF INTEREST: Shipbuilding; electrical, mechanical, and electronic engineering; naval architecture.

HOLDINGS: Approximately 118,000 volumes, including books, manuals, technical reports, military specifications, and periodicals.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite reference. Services are available only to Federal agencies and Shipyard contractors and are subject to verification of security clearance.

Long Beach Naval Shipyard Technical Library

1667 Long Beach Naval Shipyard
Long Beach, Calif. 90801
Tel: (213) 547-7066

AREAS OF INTEREST: Naval architecture; ship design; electronic, electrical, mechanical, chemical, and marine engineering; mathematics; business; personnel; management; naval history.

HOLDINGS: Books, journals, technical reports, standards, specifications.

PUBLICATIONS: Accessions lists.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference, subject to security clearance and approval of the librarian.

Mare Island Naval Shipyard Technical Library

1668 Mare Island Naval Shipyard
Building 746
Vallejo, Calif. 94592
Tel: (707) 646-4306

AREAS OF INTEREST: Analytical chemistry; materials testing; mechanical engineering; electrical engineering; nuclear chemistry; nuclear engineering; naval architecture; plastics; elastomers.

HOLDINGS: Books, journals, technical reports.

PUBLICATIONS: Accessions lists, bibliographies.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference, subject to security clearance and approval of the librarian.

Naval Ship Research and Development Center Libraries

1669 Naval Ship Research and Development
Center
NSRDC Library Code L42
Washington, D.C. 20034

Location:

Carderock, Md.
Tel: (301) 365-2600 Ext. 247

AREAS OF INTEREST: Naval architecture, including ship, submarine, and missile design, ship powering, stability, and control; hydrodynamics, including fluid flow, underwater sound, acoustics, and seaworthiness; structural dynamics, including shock, strength and evaluation of materials, vibration, and weapons effects; electrical and mechanical engineering; electronic instrumentation; applied mathematics; high-speed computer techniques; high-speed photography; pure and applied physics; aerodynamics.

HOLDINGS: There are two libraries: Central Library and Aerodynamics Library. Central Library holdings total 20,000 books, 20,000 bound volumes of periodicals, 450 periodical subscriptions, 140,000 reports, and 450 reels of microfilm. The Plan and Records Vault of the Central Library contains over 200,000 plans of ships, propellers, models, and miscellaneous appendages and devices used on ships or in model testing, and data and photographs relating to model tests and trials. The Aerodynamics Library is the repository for publications of the Navy's Aerodynamics Laboratory dating back to 1917. Its holdings include 60,000 documents, 3,850 books, 140 periodical titles, and a 400-reel microfilm collection consisting largely of German documents of the World War II period and earlier, and 1,400 data folders of aerodynamic tests performed by the Center.

PUBLICATIONS: Accessions list.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference by persons with proper security clearance.

Naval Strategic Systems Navigation Facility

TECHNICAL LIBRARY

1670 Naval Strategic Systems Navigation Facility
Building 1
Washington and Flushing Aves.
Brooklyn, N.Y. 11251
Tel: (212) 625-4500 Ext. 241

AREAS OF INTEREST: Physical sciences; ship navigation; oceanography; deep submergence.

HOLDINGS: 10,000 books; 500 periodical titles; 5,000 reports; microfilm, microfiche.

PUBLICATIONS: Indexes, bibliographies.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, reference, literature-searching, translating, and duplication services; makes interlibrary loans. Services are primarily for Facility personnel, but all users will be assisted, particularly with inquiries and interlibrary loans, as much as possible within limitations of staff and security requirements.

Navy Experimental Diving Unit

1671 Washington Navy Yard, Building 214
Washington, D.C. 20390
Tel: (202) 693-3528 or 693-2790

AREAS OF INTEREST: Medical aspects of scuba and deep-sea diving; engineering of divers' equipment.

PUBLICATIONS: Research reports.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Navy Underwater Sound Laboratory Technical Library

1672 Navy Underwater Sound Laboratory
Fort Trumbull
New London, Conn. 06301
Tel: (203) 449-3011

AREAS OF INTEREST: Underwater acoustics; undersea warfare; ocean surveillance; sonar; radar; amphibious electronic equipment; electromagnetic propagation; remote control systems; arctic research.

HOLDINGS: 180,000 technical reports; books, journals.

PUBLICATIONS: Accessions lists.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference, subject to security clearance and approval of the librarian.

Norfolk Naval Shipyard Technical Library

1673 Norfolk Naval Shipyard
Code 202.42
Portsmouth, Va. 23709
Tel: (703) 397-6541 Ext. 2174

AREAS OF INTEREST: Military science; mathematics; physics; chemistry; medicine; engineering; electronics; electricity; business.

HOLDINGS: Books, journals, technical reports, electronic technical manuals and field changes.

PUBLICATIONS: Accessions lists, bibliographies.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference, subject to security clearance and approval of the librarian.

Pearl Harbor Naval Shipyard Technical Library

1674 Pearl Harbor Naval Shipyard
Box 400, Fleet Post Office
San Francisco, Calif. 96610

Location:

Pearl Harbor, Hawaii
Tel: (808) 423-2208

AREAS OF INTEREST: Shipbuilding; ship repair; nuclear, electrical, mechanical, chemical, and electronic engineering; management.

HOLDINGS: About 60,000 books; journals, technical reports.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference, subject to security clearance and approval of the librarian.

Philadelphia Naval Shipyard Technical Library

1675 Philadelphia Naval Shipyard (Code 249B)
Philadelphia, Pa. 19112
Tel: (215) 755-3782

AREAS OF INTEREST: Shipbuilding; marine, electrical, and mechanical engineering; electronics; chemistry; ship repair.

HOLDINGS: Books, journals, technical reports, specifications, manufacturers' catalogs, electronic and ordnance publications, USN ship general and detail specifications.

PUBLICATIONS: Accessions lists.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference, subject to security clearance and approval of the librarian.

Portsmouth Naval Shipyard Technical Library

1676 Portsmouth Naval Shipyard
Portsmouth, N.H. 03801
Tel: (207) 439-1000 Ext. 1822

AREAS OF INTEREST: Submarine design and construction; naval architecture; marine engineering; propulsion systems; nuclear physics; electronics; fluid mechanics; mathematics; materials; mechanisms; sound and vibration; oceanography; management methods.

HOLDINGS: A working collection of books, journals, and technical reports; about 350 microfilm reels of back-issue periodicals and older technical reports.

PUBLICATIONS: Bibliographies, accessions lists.

INFORMATION SERVICES: Makes interlibrary loans; provides library services to Shipyard personnel, military and civilian. Written requests from outside the Shipyard are answered when possible.

Scientific Documentation Division

1677 Naval Ship Systems Command (SHIPS 205)
Washington, D.C. 20360

Location:

National Center Bldg. 3, Room 3S-08
2351 Jefferson Davis Highway
Arlington, Va.
Tel: (202) 692-3305

AREAS OF INTEREST: Marine engineering; sonar; radar; communications systems; command and control systems; submarine surveillance and warfare; acoustics; machinery; undersea environments; ship hull forms and propulsion; shipbuilding materials; nuclear propulsion plants and components.

HOLDINGS: 40,000 books; 760 periodical titles; 230,000 technical reports; 72,000 technical manuals.

PUBLICATIONS: *Naval Ship Systems Command Technical News*; technical reports.

INFORMATION SERVICES: Answers inquiries; provides reference, literature-searching, and translation services; makes interlibrary loans. Services are available only to Naval Ship Systems Command organizations and contractors, and other qualified Federal Government personnel.

This Division operates the SHARP Information Storage and Retrieval System for the Command.

Naval Supply Systems Command

Aviation Supply Office

1678 Naval Supply Systems Command
700 Robbins Ave.
Philadelphia, Pa. 19111
Tel: (215) 697-2863

AREAS OF INTEREST: Aircraft spare parts; value engineering; packaging engineering; procurement information; quality assurance; inventory management.

HOLDINGS: Technical reference library of 2,000 NAVAIR, NAVWEPS illustrated parts breakdown manuals and maintenance manuals of all active Naval aircraft and their operational/accessory equipments.

INFORMATION SERVICES: The unclassified portion of the library is accessible for onsite use by persons with a need-to-know.

Library

1679 Naval Supply Systems Command
Washington, D.C. 20390

Location:

Crystal Mall, Building 3, Room 528
Arlington, Va.
Tel: (202) 695-4704

AREAS OF INTEREST: Management; logistics management; procurement; transportation; supply management (inventory control, packaging, materials handling, storage); personnel management.

HOLDINGS: 15,000 volumes, including publications of the Command and the writings of Supply Corps officers; 150 periodical titles.

INFORMATION SERVICES: Makes interlibrary loans. The Library is primarily for Supply Systems Command personnel, but is open to Navy Department personnel with special clearances.

Navy Clothing and Textile Research Unit

1680 Natick Laboratories
Natick, Mass. 01760
Tel: (617) 653-1000 Ext. 2172 or 2178

AREAS OF INTEREST: Clothing and textiles, including military uniforms and clothing, buoyant-ballistic vests, protective clothing, fire-resistant clothing, cold-weather clothing, decompression chamber clothing and textile items, and materials for deep-sea swimmers' suits; footwear, including protective footwear; leather; insignia.

HOLDINGS: 32,000 standards and specifications; 1,000 technical reports; 400 books; 40 periodical titles.

PUBLICATIONS: Technical reports and specifications.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Navy Department Library

1681 Building 220, Washington Navy Yard
Washington, D.C. 20390
Tel: (202) 696-1772

AREAS OF INTEREST: Naval science; international law and law of the sea; polar studies; naval and military biographies; navigation; strategy and tactics; naval architecture; exploration voyages and sea life.

HOLDINGS: About 130,000 volumes and 10,000 pamphlets, including 900 volumes on the history of naval ordnance, 600 titles on the polar regions, early books on mechanics, guidebooks to all countries, and works on the principal navies of the world, especially those of Great Britain and the U.S.; about 600 serial titles.

INFORMATION SERVICES: Makes interlibrary loans; makes direct loans to Department of Defense personnel; permits onsite reference.

Office of Naval Research

Library

1682 Office of Naval Research
Boston Tower No. 1, Room 633
800 North Quincy St.
Arlington, Va. 22217
Tel: (202) 692-4415

AREAS OF INTEREST: Physical, biological, medical, social, and naval sciences; management.

HOLDINGS: About 10,000 volumes, 400 periodical titles, and a pamphlet collection.

INFORMATION SERVICES: Answers inquiries; makes referrals; makes interlibrary loans; permits onsite use of collection.

Facilities include a microfilm reader-printer and a microfiche reader.

Naval Research Laboratory

CHEMISTRY DIVISION

1683 Naval Research Laboratory
4555 Overlook Ave. SW.
Washington, D.C. 20390
Tel: (202) 767-3546

AREAS OF INTEREST: Basic and applied research and development studies in the broad fields of physical, organic, inorganic, and analytical chemistry. Specialized programs currently within these fields include fuels and lubricants, surface chemistry, ceramic and polymeric materials, electrochemistry, combustion dynamics, molecular structure, determinations, submarine atmosphere analysis and control, corrosion, personnel protection, and fire suppression.

INFORMATION SERVICES: Answers inquiries; makes referrals.

LIBRARY

1684 Naval Research Laboratory
4555 Overlook Ave. SW.
Washington, D.C. 20390
Tel: (202) 767-2357

AREAS OF INTEREST: Electronics; radar; space sciences; radio; sound; chemistry; metallurgy; oceanology; solid state, nuclear, plasma, and atmospheric physics; nucleonics; optics; radiation; mathematics; data processing; operational research; systems analysis.

HOLDINGS: 125,000 bound volumes; 350,000 technical reports; 2,000 scientific and technical serial titles; 6,000 maps and charts; 40,000 technical reports on microfiche.

PUBLICATIONS: *Scientific Reports Index*; *Holdings of Periodicals in the Technical Library of the Naval Research Laboratory*; *Periodical Holdings, Office of Naval Research Library*; *Subject Headings Used in the Technical Library of the Naval Research Laboratory Book Catalog*; *Your Library as a Research Tool: A Guide to the Resources and Services of the Naval Research Laboratory Library*; translations, bibliographies.

INFORMATION SERVICES: Makes interlibrary loans. The collections are not open to the public.

Facilities include a microfiche reader, a microfiche reader-printer, and a Xerox copier.

SHOCK AND VIBRATION INFORMATION CENTER

1685 Code 6020
Naval Research Laboratory
Washington, D.C. 20390

Tel: (202) 767-2220

Operated by the Naval Research Laboratory, the Center serves the Department of Defense, the National Aeronautics and Space Administration, and their contractors by collecting, correlating, and disseminating information on mechanical shock and vibration as they affect equipment and materials.

AREAS OF INTEREST: All aspects of the shock and vibration technology (causes, effects, methods of mitigating or preventing adverse effects), particularly subjects related to dynamic mechanical phenomena, including structural dynamics, transportation and service environments (shock, vibration, acoustics), test techniques and equipment, mathematical analysis and interpretation of environmental data, design, material properties fatigue, and damping.

PUBLICATIONS: *The Shock and Vibration Digest* (monthly journal containing abstracts of all current journal articles on shock and vibration, meeting calendar and programs, book reviews, and other pertinent news); *Shock and Vibration Bulletins* (approximately annual, containing proceedings of symposia); *Index of Environmental Test Equipment in Government Establishments* (1960, rev. 1967); comprehensive state-of-the-art analyses (2 or 3 a year). Publications are sold by the Navy Publications and Printing Service Office, Naval District of Washington, Building 157-2, Washington Navy Yard, Washington, D.C. 20390.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and reference services. Services are available to environmental engineers, test engineers, structural dynamicists, and other technical workers within the Department of Defense, the National Aeronautics and Space Administration, other Government agencies, and their contractors.

UNDERWATER SOUND REFERENCE DIVISION

1686 Naval Research Laboratory
P.O. Box 8337
Orlando, Fla. 32806

Location:

4501 South Summerlin Ave.
Orlando, Fla.
Tel: (305) 425-9071

AREAS OF INTEREST: Underwater sound (generation, reception, measurement, anechoic tanks, simulated ocean conditions); underwater sound transducers (design, development, construction, calibration, materials); standards (transducers, measurement methods); electronic measurement and control systems.

HOLDINGS: 2,600 books; 125 journals; 7,000 technical reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides the following services to Department of Defense activities and contractors (and to other Government activities on a not-to-interfere-with-Navy-work basis): consulting, measurement, loan of standard transducers, interlibrary loan, and onsite use of literature collection.

Scientific Information Office

1687 Office of Naval Research
Ballston Center Tower No. 1
800 North Quincy St.
Arlington, Va. 22217
Tel: (703) 692-4111

AREAS OF INTEREST: Earth sciences; physical sciences; mathematics; psychology; biology; military research.

PUBLICATIONS: *Naval Research Reviews* (monthly) and *Naval Research Logistics* (quarterly), both available from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402; *Digital Computer Newsletter* (quarterly); *European Notes* (monthly); *U.S. Navy Journal of Underwater Acoustics* (quarterly, classified); *Naval Human Engineering Bulletin* (every 4-6 weeks).

INFORMATION SERVICES: Answers inquiries; makes referrals; disseminates limited number of publications.

Strategic Systems Project Office

Technical Library Branch

1688 Strategic Systems Project Office
Department of the Navy
Washington, D.C. 20390

Location:

Crystal Mall, Building 3, Room 827
1931 Jefferson Davis Highway
Arlington, Va.
Tel: (202) 697-2851 or 697-2852

AREAS OF INTEREST: Solid rocket motors and propellants; reliability; submarine engineering; navigation; communications; detection; countermeasures; underwater-launched missiles; administration and management.

HOLDINGS: About 2,000 books, 60,000 reports, and 150 periodical titles.

INFORMATION SERVICES: Provides reference and interlibrary loan services on a need-to-know basis.

NEBRASKA ACADEMY OF SCIENCES, INC.

1689 209 Morrill Hall
14th and U Sts.
Lincoln, Nebr. 68508
Tel: (402) 472-2644

AREAS OF INTEREST: Science and technology, with some emphasis on the Midwest.

PUBLICATIONS: Proceedings, abstract journal, newsletter, transactions, occasional symposiums.

INFORMATION SERVICES: Makes referrals.

NEBRASKA DEPARTMENT OF ECONOMIC DEVELOPMENT

Industrial Research and Information Service

1690 Nebraska Department of Economic
Development
Box 94666, State Capitol
Lincoln, Nebr. 68509
Tel: (402) 477-8984

AREAS OF INTEREST: Physical, biological, engineering, and social sciences of interest to Nebraska business and industry.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; provides reference services, utilizing the library of the University of Nebraska. Services are primarily for managerial and professional personnel engaged in business and industry in Nebraska. Some services are free; others are provided at cost, depending on time requirements.

NEBRASKA DEPARTMENT OF HEALTH

Environmental Health Service

1691 Nebraska Department of Health
P.O. Box 94757, State House Station
Lincoln, Nebr. 68509
Tel: (402) 473-1484

AREAS OF INTEREST: State water supply and quality; waste water disposal and water purification for domestic and food-industry use; control of waterborne disease vectors; plans and specifications.

HOLDINGS: Books, reports, project records, periodicals, reviews, abstracts, indexes, bibliographies, publication lists, reprints, pamphlets, graphs, tables, maps, charts, slides, photos, data.

PUBLICATIONS: Yearly almanacs of water supply data; technical reports, reprints, data compilations. A publications list is sent on request.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and literature-searching services; permits onsite use of literature collection.

NEBRASKA DEPARTMENT OF WATER RESOURCES

1692 State Capitol
Lincoln, Nebr. 68509
Tel: (402) 473-1663

AREAS OF INTEREST: Water resources; irrigation; public power; electricity; dams; laws and regulations; water pollution; reservoirs; water storage; ground water; conservation.

HOLDINGS: Reports, pamphlets, maps, correspondence; irrigation well registrations; water right applications; streamflow and ground-water data.

PUBLICATIONS: A biennial report, other reports, data books, pamphlets.

INFORMATION SERVICES: Answers inquiries.

NEBRASKA SOIL AND WATER CONSERVATION COMMISSION

1693 P.O. Box 94725
State Capitol Bldg.
Lincoln, Nebr. 68509
Tel: (402) 473-1261

AREAS OF INTEREST: Soil and water conservation; watershed protection and planning; flood prevention and control; soil and water planning; flood plain studies.

PUBLICATIONS: Brochures, pamphlets, reports. All publications are available free.

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes referrals.

NEBRASKA TESTING LABORATORIES

1694 P.O. Box 6075
Elmwood Park Station
Omaha, Nebr. 68106

Location:
4453 South 67th St.
Omaha, Nebr.
Tel: (402) 331-4453

AREAS OF INTEREST: Asphalt and concrete testing; soils; soil mechanics; site evaluation engineering; herbicides; pesticides; fumes; gas; contamination; corrosion; pollution; air conditioning and heating system balancing; highway soil survey engineering; chemical consulting; physical testing of materials; nondestructive testing; aerial survey, photography, and photogrammetry.

HOLDINGS: 500 books; 10,000 periodicals; 200 photos; 300 slides; 140 maps and charts; 280 standards and specifications; 3,000 pamphlets, booklets, leaflets, and brochures; 85 abstracts and indexes; graphs, tables.

PUBLICATIONS: Brochures, maps, charts, graphs, technical reports, news releases.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services for fee; permits onsite use of collection and lends materials by special arrangement.

NEVADA AGRICULTURAL EXPERIMENT STATION

see University of Nevada

NEVADA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

Division of Water Resources

1695 Nevada Department of Conservation and
Natural Resources
201 South Fall St.
Carson City, Nev. 89701
Tel: (702) 882-7441

AREAS OF INTEREST: Water resources administration, including adjudication, appropriation, and distribution; supervision of dam construction; licensing of water well drillers; interstate compact negotiations; flood control; comprehensive water and related land resources planning.

HOLDINGS: Records of valid water rights and claims of rights, reports on water availability, plans and specifications of dams, miscellaneous reports, pamphlets.

PUBLICATIONS: Bulletins, pamphlets, reports.

INFORMATION SERVICES: Answers inquiries; permits onsite use of collection.

NEVADA DEPARTMENT OF HEALTH, WELFARE, AND REHABILITATION

Division of Health

Bureau of Environmental Health

1696 Division of Health
Nevada Department of Health, Welfare, and
Rehabilitation
201 South Fall St.
Carson City, Nev. 89701
Tel: (702) 882-7458

AREAS OF INTEREST: Water and air pollution control; occupational and radiological health; sanitary engineering; food and milk sanitation; solid waste disposal; food and drug control.

HOLDINGS: Books, journals, photos, reports, abstracts, pamphlets, brochures, samples, specimens, State laws and regulations pertaining to public health.

INFORMATION SERVICES: Disseminates copies of health rules, regulations, and reports; provides consulting and reference services; makes referrals; permits onsite reference; provides chemical and bacteriological tests of water samples.

NEVADA OIL AND GAS CONSERVATION COMMISSION

1697 c/o Nevada Bureau of Mines
Reno, Nev. 89507
Tel: (702) 784-6691

AREAS OF INTEREST: Oil and gas wells in Nevada; petroleum exploration; conservation.

HOLDINGS: Reports, logs, maps, rock samples, and other data on oil and gas wells drilled in Nevada.

PUBLICATIONS: Regulations and laws of the Commission.

INFORMATION SERVICES: Answers inquiries pertaining to the oil and gas industry, including data on individual wells; permits onsite reference to data in the files.

NEVADA SOIL CONSERVATION COMMITTEE

1698 c/o Mr. George Zappettini, Secretary
201 South Fall St.
Carson City, Nev. 89701
Tel: (702) 882-7488

AREAS OF INTEREST: Conservation of farmland; watershed management; flood control programs carried out by the State's soil conservation districts.

PUBLICATIONS: Educational reports are issued periodically to soil conservation district personnel.

INFORMATION SERVICES: Answers inquiries; provides consulting services to soil conservation district personnel.

NEVADA STATE INSPECTOR OF MINES

1699 Capitol Bldg., Room 6
Carson City, Nev. 89701
Tel: (702) 882-7500

AREAS OF INTEREST: Mine safety, including mills and smelters.

HOLDINGS: 75 books; 70 journals; 120 reports; 100 pamphlets; 160 maps and charts; mining laws, mining claim procedures, annual mine list for the State of Nevada; specimens of metallic and nonmetallic ores.

PUBLICATIONS: *Mining Laws and Procedures*; biennial report (even years).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services on how to locate and maintain mining claims and on safety regulations.

NEVADA STATE TECHNICAL SERVICES PROGRAM

1700 Office of Technical Services
103 Palmer Engineering Bldg.
University of Nevada
Reno, Nev. 89507
Tel: (702) 784-6880

Office of Technical Services, Southern
Nevada Office
Nevada Southern University
4505 Maryland Parkway
Las Vegas, Nev. 89109
Tel: (702) 736-6111 Ext. 358

Southern Nevada Industrial Foundation
400 Stewart Ave.
Las Vegas, Nev. 89101
Tel: (702) 382-7456

AREAS OF INTEREST: Physical sciences; engineering.

HOLDINGS: Indexes and files, including data on consulting services available and the technical skills held by Nevada citizens.

PUBLICATIONS: Monographs are planned on the products of university research, such as "Freeze-Thaw Characteristics of Asphalt Paving" and "Solar Radiation in Reno, Nevada."

INFORMATION SERVICES: All three organizations answer inquiries, make referrals, provide literature-searching services, and disseminate selectively to interested businesses brief abstracts of technical interest.

THE NEW BRITAIN MACHINE CO.

1701 P.O. Box 1320
New Britain, Conn. 06050
Tel: (203) 229-1641

AREAS OF INTEREST: Machine tools; mechanics' hand tools; plastics injection molding machines; coordinate measuring machines.

HOLDINGS: Small collection of periodicals and reports.

PUBLICATIONS: Periodicals, specifications, reports.

INFORMATION SERVICES: Answers inquiries; provides duplication services; permits onsite use of collection.

NEW ENGLAND INTERSTATE WATER POLLUTION CONTROL COMMISSION

1702 73 Tremont St., Room 950
Boston, Mass. 02108
Tel: (617) 742-0281

AREAS OF INTEREST: Control of water pollution in the interstate water basins of New England, including classification of interstate waters, standards of water quality, sources of pollution, industrial wastes treatment, sewage treatment, water quality monitoring, pollution control legislation, and training of waste water treatment plant operators. The Commission has sponsored research on various textile wastes, white water wastes from paper and paperboard mills, tannery wastes, dairy wastes, chlorination of raw sewage, sludge plants and sewage lagoons, and the use of electronics and automatic equipment in water conservation, sampling, and treatment.

HOLDINGS: Books, journals, reports, maps, charts, abstracts, pamphlets, photos, reprints.

PUBLICATIONS: An annual report, a newsletter, and a list of available published research reports are free on request.

INFORMATION SERVICES: Answers inquiries; makes referrals.

NEW ENGLAND MARINE RESOURCES INFORMATION PROGRAM

1703 University of Rhode Island
Kingston, R.I. 02881
Tel: (401) 792-6211

AREAS OF INTEREST: New England's marine resources and industries.

HOLDINGS: An inventory of sources of technical information on marine affairs in the New England area.

PUBLICATIONS: Bulletins, newsletters, bibliographies, reports, conference proceedings, brochures.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services; makes referrals; sponsors workshops, conferences, and seminars. Services are provided free unless special research is required.

NEW ENGLAND RESEARCH APPLICATION CENTER

see University of Connecticut

NEW ENGLAND WATER POLLUTION CONTROL ASSOCIATION

1704 P.O. Box 1211
Boston, Mass. 02104
Tel: (203) 928-9233 (Mr. John R. Masterson, Secretary-Treasurer, located in Connecticut)

AREAS OF INTEREST: Design, construction, operation, and management of waste treatment works and other water pollution control activities in New England.

PUBLICATIONS: Journal (semiannual).

INFORMATION SERVICES: Answers inquiries; makes referrals; conducts a voluntary certification program for sewage treatment works operators.

NEW HAMPSHIRE AERONAUTICS COMMISSION

1705 Concord Municipal Airport
Concord, N.H. 03302
Tel: (603) 271-2551

AREAS OF INTEREST: All aspects of aviation, including legislation, airports development, air commerce, air service, air navigation aids, intrastate air regulation, aviation safety, federal aid to airports, and liaison with Federal, State, and town agencies and authorities.

HOLDINGS: Reports, nonprinted material.

PUBLICATIONS: Airport directory, biennial report to the Governor.

INFORMATION SERVICES: Provides reference services to Government agencies and their contractors.

NEW HAMPSHIRE AGRICULTURAL EXPERIMENT STATION

see University of New Hampshire

NEW HAMPSHIRE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

1706 Morton State Office Bldg.
85 Loudon Rd.
Concord, N.H. 03301
Tel: (603) 271-2515

AREAS OF INTEREST: Highway, bridge, and building research, planning, design, construction, and maintenance; related fields in transportation such as highway safety, laws and enforcement, traffic control, traffic research, engineering, and public relations.

HOLDINGS: Special current technical clippings, news releases, films, photos, brochures, and publications in the public works and highway transportation fields of interest. The collection is used primarily by the Department's staff.

INFORMATION SERVICES: Answers inquiries.

NEW HAMPSHIRE DEPARTMENT OF RESOURCES AND ECONOMIC DEVELOPMENT

Division of Economic Development

Office of State Geologist

1707 James Hall
University of New Hampshire
Durham, N.H. 03824
Tel: (603) 868-5511 Ext. 571

AREAS OF INTEREST: Geology, including surficial geology, bedrock geology, mineralogy, hydrogeology, and oceanography; mining; metallic and nonmetallic mineral raw materials; geophysics; environmental geology.

HOLDINGS: Maps and data on drilled water wells; maps of surficial materials.

PUBLICATIONS: *Geologic Quadrangle Reports*; *Bedrock Geology Quadrangle Maps*; *Surficial Geology Quadrangle Maps*; *Professional Bulletins*; *New Hampshire Mineral Resources Survey*; *The Geology of New Hampshire* (3 volumes); *Miscellaneous Geologic Reports* (a list of titles is available).

INFORMATION SERVICES: Answers inquiries; provides consulting services; provides speakers to clubs and professional organizations.

NEW HAMPSHIRE PESTICIDES CONTROL BOARD

1708 State House Annex, Room 105
Concord, N.H. 03301
Tel: (603) 271-3550

AREAS OF INTEREST: Complete record of annual pesticide application in New Hampshire, including list of all commercial pest control operators and agricultural pesticide users.

PUBLICATIONS: Annual reports on pesticide use in New Hampshire.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

NEW HAMPSHIRE RADIATION CONTROL AGENCY

1709 61 South Spring St.
Concord, N.H. 03301
Tel: (603) 271-2281 or 271-2282

AREAS OF INTEREST: X-ray and radioisotope shielding design; environmental radiation surveillance; radiation detection; radiochemical analysis.

HOLDINGS: Small working collection of books, periodicals, and reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services. Services are free to all users, but data gained through licensing or registration by the Agency are confidential by law.

NEW HAMPSHIRE TECHNICAL INSTITUTE

1710 Fan Rd.
Concord, N.H. 03301
Tel: (603) 271-2531

AREAS OF INTEREST: Electronic data processing; mechanical engineering technology; electrical-electronic engineering technology; mathematics; physics; nursing; dental hygiene; X-ray technology; biological sciences; social sciences.

HOLDINGS: 7,135 books; 207 periodicals.

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans.

NEW HAMPSHIRE WATER RESOURCES BOARD

1711 State House Annex, Room 316
Concord, N.H. 03301
Tel: (603) 271-3406

AREAS OF INTEREST: Reconstruction, maintenance, and operation of State-owned dams; construction, operation, safety, and maintenance of private dams; operation of State-owned reservoirs; lake level investigations at all lakes; determination of limit of State ownership at lakes over ten acres in area at normal high water; Connecticut River Flood Control Compact; Merrimack River Flood Control Commission; conveyance of State property under water; flood control; water conservation projects; ground- and surface-water hydrology; surface-water flow in various streams; runoff; snow surveys; evaporation; fresh and salt wetlands conservation; all fill or dredge construction in inland and tidal waters of the State.

HOLDINGS: Inventory of all State and private dams in New Hampshire, including technical reports, standards, specifications, photos, maps, and charts; detailed water level records at some State-owned lakes and a few selected private lakes; snow-water, discharge, precipitation, and streamflow records at selected areas within the State; ground-water survey data at key locations in the State.

INFORMATION SERVICES: Offers guidance on State requirements for new and rebuilt dam construction; disseminates information on flow conditions in various rivers and lake levels during high and low water conditions; determines, upon request, limits of State onwership at great ponds. Board records are open to public examination.

NEW HAMPSHIRE WATER SUPPLY AND POLLUTION CONTROL COMMISSION

1712 61 South Spring St.
Concord, N.H. 03301
Tel: (603) 225-6611 Ext. 523, 524, or 525

AREAS OF INTEREST: Pollution control of surface waters of New Hampshire; sewerage and sewage treatment facilities in juvenile and recreational camps; public water supplies; public bathing areas; industrial and mill wastes; marine growth.

HOLDINGS: Small collection of books, periodicals, technical reports, maps, charts, slides, photos, pamphlets, and films.

PUBLICATIONS: Reports, pamphlets, brochures.

INFORMATION SERVICES: Answers inquiries; makes referrals; prepares technical summaries; provides consulting services; permits onsite use of collection; analyzes samples of surface waters, mill waters, sewage, marine growth, and drinking water.

NEW JERSEY AGRICULTURAL EXPERIMENT STATION

see Rutgers--The State University

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

Division of Natural Resources

Bureau of Geology and Topography

1713 Division of Natural Resources
New Jersey Department of Environmental Protection
P.O. Box 1889
Trenton, N.J. 08625

Location:
Labor and Industry Bldg.
John Fitch Plaza
Trenton, N.J.
Tel: (609) 292-2576

AREAS OF INTEREST: Geology, hydrogeology, and topography of New Jersey; effects and sources of water pollution; industrial, municipal, and radioactive wastes; conservation of natural resources; water supply; water treatment; wells; shoreline erosion.

HOLDINGS: Maps, bulletins, reports; a permanent note system giving geologic details at specific locations; more than 30,000 individual well records and a representative set of well samples; unpublished manuscripts and case files on geology and water problems. Some publications date back to 1835.

PUBLICATIONS: Geologic Report Series; topographic and geologic maps.

INFORMATION SERVICES: Answers inquiries; provides speakers; disseminates publications for fee.

Bureau of Navigation

1714 Division of Natural Resources
New Jersey Department of Environmental Protection
P.O. Box 1889
Trenton, N.J. 08625

Location:
Labor and Industry Bldg.
John Fitch Plaza
Trenton, N.J.
Tel: (609) 292-2651

AREAS OF INTEREST: Aquatic biology and ecology; aquifers; desalination; docks; erosion; floods and flood control; hydraulics; hydrodynamics; water pollution control and abatement; sewage treatment; industrial and recreational water use; waterways: design and construction of jetties, canals, and navigation improvements along the coast.

HOLDINGS: Maps, case histories, and data relating to the tidal waters of the coast, bays, and estuaries of New Jersey.

PUBLICATIONS: Occassional articles in technical journals.

INFORMATION SERVICES: Answers inquiries; assists in preparing maps and reports on navigation improvements, riparian grants, and shoreline protection.

Division of Parks, Forestry, and Recreation

1715 New Jersey Department of Environmental
Protection
P.O. Box 1889
Trenton, N.J. 08625

Location:

Labor and Industry Bldg.
John Fitch Plaza
Trenton, N.J.
Tel: (609) 292-2520 (Bureau of Forestry)
(609) 292-2772 (Bureau of Parks)
(609) 292-2597 (Bureau of Recreation)

AREAS OF INTEREST: State forests, parks, and recreational areas; natural areas; rivers, streams, and lakes; limnology; phreatophyte control; aquatic biology and ecology; water pollution; water temperature; water use for recreational purposes; prevention of shoreline erosion; shore protection works. Means of securing fresh water in coastal areas and the recreational use of tidal waters are of particular interest to the Division.

HOLDINGS: Maps and information on State forests, State parks, and recreational areas.

PUBLICATIONS: Occasional pamphlets or shore publications on specific forests, parks, or water recreational areas.

INFORMATION SERVICES: Answers technical inquiries and gives advice on recreational facilities available in State forests and park areas.

Division of Water Policy and Supply

1716 New Jersey Department of Environmental
Protection
P.O. Box 1390
Trenton, N.J. 08625

Location:

Labor and Industry Bldg.
John Fitch Plaza
Trenton, N.J.
Tel: (609) 292-2203 (Director)
(609) 292-2373 (Bureau of Water Control)
(609) 292-2956 (Bureau of Water Resources)
(609) 292-2298 (Bureau of Water Supply)

AREAS OF INTEREST: Overall planning for the development, use, and protection, including quality, of natural water resources; construction and operation of surface-water facilities when authorized by the legislature; administration and enforcement of laws pertaining to the allocation for diversion for public water supply and private use of surface- and ground-water resources; sale of water from State-owned water facilities; administration and enforcement of laws pertaining to the construction and maintenance of dams, construction of encroachments on stream. and delineation of floodways and flood hazard areas on flood plains; licensing of well drillers and issuance of well drilling permits; promotion of flood control projects and flood insurance programs; investigation of floods, ground-water resources, droughts, salt water intrusion, and sedimentation; maintenance of adequate stream gaging station and ground-water level, quality, and salinity observation wells networks; maintenance of water use records and estimates of future water use projections; administration of water compacts, water conservation and allocation laws, and water and flood management as prescribed by the legislature.

HOLDINGS: Legal documents, maps, and data related to water supply grants and permits for the diversion or sale of water, construction of stream encroachments and dams, delineation of flood plains, and capacity and dependable yields of water supply reservoir and other water resource facilities.

PUBLICATIONS: Special reports, water resource circulars containing interim data, brochures, miscellaneous publications. A publications list is available.

INFORMATION SERVICES: All three Bureaus answer technical inquiries and provide advice on problems within their areas of interest.

NEW JERSEY DEPARTMENT OF HEALTH

Division of Environmental Health

1717 New Jersey Department of Health
Health-Agriculture Bldg
John Fitch Plaza
Trenton, N.J. 08625
Tel: (609) 292-4091

AREAS OF INTEREST: Environmental health, including industrial health, air pollution, radiation protection, stream pollution, water treatment, sewage and industrial waste treatment, food and drugs, veterinary public health (rabies and other animal diseases, insect and rodent control), and general sanitation (camps and lake bathing, housing, potable water, ragweed and poison ivy, solid waste disposal, mobile home parks).

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services to municipal governments and to industry.

The Division conducts routine inspections of public water supplies and sewage and industrial waste treatment plants and maintains stations for water sampling throughout the State.

NEW MEXICO HEALTH AND SOCIAL SERVICES DEPARTMENT

Environmental Services Division

1718 New Mexico Health and Social Services
Department
P.O. Box 2348
Santa Fe, N. Mex. 87501
Tel: (505) 827-2473

AREAS OF INTEREST: Consumer protection; water and liquid wastes; general environmental sanitation; occupational-radiological health; air pollution.

HOLDINGS: Data, project records, technical reports, plans and specifications.

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes referrals; permits onsite reference to sewerage and swimming pool plans and specifications.

Water and Liquid Waste Section

1719 New Mexico Health and Social Services
Department
P.O. Box 2348
Santa Fe, N. Mex. 87501
Tel: (505) 827-2813

AREAS OF INTEREST: Public health (excluding medicine); water supply; sewage treatment; water treatment; swimming pools; water pollution control; design of individual water supply and waste water treatment and disposal units; water quality; industrial waste.

HOLDINGS: Reports, project records, pamphlets, abstracts, indexes, maps, charts, graphs, tables, reviews, specimens, plans and specifications of water and sewage facilities; chemical and physical analysis of water samples in New Mexico; water quality standards.

PUBLICATIONS: Booklets, mimeographed reports; regulations on water quality and statements of policy on water and sewage.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference; disseminates publications free.

NEW MEXICO HIGHLANDS UNIVERSITY

Institute of Scientific Research

1720 New Mexico Highlands University
Las Vegas, N. Mex. 87701
Tel: (505) 425-7511

AREAS OF INTEREST: Biochemistry; physical-chemical properties of biological compounds and systems; chemical and physiological properties of psychopharmacological compounds; alkaloids; reaction mechanisms; surface adsorption; thermodynamics; chemistry of water; arylonium analyses; ethology of the Pocket Mouse; embryology of native grasses; infrared astronomy; physiology of bats; stereochemistry of small ring heterocycles.

HOLDINGS: Books, journals, reports, punched cards containing thermodynamic data.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; provides consulting and bibliographic services for fee; makes interlibrary loans; permits onsite use of collection.

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

State Bureau of Mines and Mineral Resources Division

1721 New Mexico Institute of Mining and
Technology
Campus Station
Socorro, N. Mex. 87801
Tel: (505) 835-5420

AREAS OF INTEREST: Mineral technology of New Mexico; mining; metallurgy; geology.

HOLDINGS: Cuttings from 8,400 test wells; 8,800 drillers logs; mechanical logs from 11,750 wells; 60,000 data cards; records of test wells drilled in New Mexico; county maps showing the locations of wells drilled for oil and gas.

PUBLICATIONS: Bulletins, circulars, maps, biennial report, press releases, data compilations. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; identifies minerals, rocks, ores, and clays, free for New Mexico residents; provides preliminary laboratory investigations of ores from New Mexico free (additional studies at cost may be made through contracts); permits onsite reference.

NEW MEXICO OIL CONSERVATION COMMISSION

1722 Box 2088
State Land Office Bldg.
Santa Fe, N. Mex. 87501
Tel: (505) 982-2641

AREAS OF INTEREST: Oil conservation in New Mexico; regulation of oil production and producers.

HOLDINGS: Reports on oil and gas production, pipelines, refineries, and gasoline plants; hearing case files, including geological and reservoir data.

PUBLICATIONS: *Conservation Rules and Regulations* (approximately biennially); oil and gas proration schedules (monthly); copies of orders, regulations, directives, and memoranda (all irregular).

INFORMATION SERVICES: Provides duplication services (material may be duplicated in limited quantities if circumstances warrant); makes referrals; permits onsite reference; provides general statistical information on New Mexico oil production and drilling.

District offices of the Commission are located at: 1000 West Broadway, Hobbs, N. Mex.; 1000 Rio Brazos Rd., Aztec, N. Mex.; and 10th and Dallas Sts., Artesia, N. Mex.

NEW MEXICO SOCIETY OF PROFESSIONAL ENGINEERS

1723 505 North Canyon St.
Carlsbad, N. Mex. 88220
Tel: (505) 885-4804

AREAS OF INTEREST: Professionalism in engineering.

HOLDINGS: Books, journals.

PUBLICATIONS: *New Mexico Professional Engineers* (monthly).

INFORMATION SERVICES: Answers inquiries.

NEW MEXICO STATE ENGINEER

1724 State Capitol
Santa Fe, N. Mex. 87501
Tel: (505) 827-2526

AREAS OF INTEREST: Water conservation as related to municipalities, industry, and agriculture in New Mexico; interstate river compacts involving New Mexico, such as the Colorado River Compact.

HOLDINGS: Technical reports, data.

INFORMATION SERVICES: Technical reports, biennial activity reports.

Answers inquiries; makes referrals to other State and Federal organizations; permits onsite use of collection.

NEW MEXICO STATE OFFICE OF MINE INSPECTION

1725 505 Marquette Ave. NW., Room 1103
Albuquerque, N. Mex. 87101
Tel: (505) 842-3055

AREAS OF INTEREST: Safety in all mines of New Mexico; mine safety laws; mine employment; mining of uranium, copper, zinc, and other metals; mining of coal, potash, perlite, mica, and other nonmetals.

HOLDINGS: 10 books; 1,100 samples (radon counts, roof bolt tests); 100 mining devices tested or inspected; 100 photos; 50 slides; 25 maps and charts; 25 reports (mine safety); 50 standards and specifications; 50 reviews; 25 periodicals; 100 preprints and reprints; 100 pamphlets; 1,000 clippings; newsletters, posters and other display materials (safety only), publication lists, data.

PUBLICATIONS: Annual report, standards.

INFORMATION SERVICES: Answers brief inquiries on safety only; makes referrals; permits onsite reference (except to annual report).

NEW MEXICO STATE SOIL AND WATER CONSERVATION COMMITTEE

1726 State Land Office Bldg., Room 219
Santa Fe, N. Mex. 87501
Tel: (505) 827-2971

AREAS OF INTEREST: Natural resource conservation, including water conservation; water resources planning; irrigation; flood control; watershed districts; resource conservation and development districts; soil and water conservation districts; recreation, including private income-producing recreation; management of public lands; all other facets of conservation and development of our natural resources.

HOLDINGS: Reports, data.

PUBLICATIONS: *New Mexico Soil and Water Conservation Needs Inventory*, prepared in cooperation with other State and Federal agencies; pamphlets, annual report, technical reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

NEW MEXICO STATE UNIVERSITY

Agronomy Department

1727 New Mexico State University
P.O. Box 3-Q
Las Cruces, N. Mex. 88001
Tel: (505) 646-3405

AREAS OF INTEREST: Crop and soil sciences.

HOLDINGS: 300 reference books; collection of Yearbooks of Agriculture; collection of Advances in Agronomy; reference library in soil science, plant breeding, and plant physiology; pesticide bulletins, soil survey maps, miscellaneous pamphlets; theses in the areas of plant breeding, soil science, and weed physiology.

PUBLICATIONS: Research reports, occasional bulletins.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services; makes referrals.

University Computer Center

1728 New Mexico State University
P.O. Box 3AT
Las Cruces, N. Mex. 88001
Tel: (505) 646-3439

AREAS OF INTEREST: Digital computers; digital computer programming; numerical analysis; programming languages.

HOLDINGS: 50,000 punched cards; 300 reports; 250 magnetic tapes.

PUBLICATIONS: Newsletter (irregular); users' manual; research reports (irregular).

INFORMATION SERVICES: Answers brief inquiries; provides consulting services for fee.

Facilities include an IBM 360/50 and unit record equipment.

Water Resources Research Institute

1729 New Mexico State University
P.O. Box 3167
Las Cruces, N. Mex. 88001
Tel: (505) 646-4337

AREAS OF INTEREST: Coordination of Statewide water resources research; water cycle; water conservation; water use; water management; augmentation of available water supplies; water quality; water economics; water law; aquatic biology and ecology; water engineering; recreational use of water; hydraulics; social aspects of water resources; training of students in the water resources field.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers brief inquiries; makes referrals.

THE NEW YORK ACADEMY OF SCIENCES

1730 2 East 63d St.
New York, N.Y. 10021
Tel: (212) 838-0230

AREAS OF INTEREST: Anthropology; biochemistry; biophysics; engineering; environmental sciences; geological sciences; instrumentation; mathematics; microbiology; organometallic chemistry; polymer science; psychology; atmospheric sciences; biological and medical sciences; catalysis; chemical sciences; computer and information sciences; physical sciences; science and public policy.

PUBLICATIONS: *Transactions* of The New York Academy of Sciences (8 a year); *Annals of The New York Academy of Sciences* (irregular); *The Sciences* (monthly); monographs and special publications (both irregular). A publications list is available.

INFORMATION SERVICES: Refers inquiries from bona fide scientists to Academy members who would be willing to help as a matter of professional courtesy; permits onsite use of the Academy's *Annals*.

NEW YORK CITY BOARD OF WATER SUPPLY

1731 1250 Broadway
New York, N.Y. 10001
Tel: (212) 566-4729

AREAS OF INTEREST: Municipal water supply engineering; research planning, design, development, construction, and testing of municipal water supply systems, including dams, reservoirs, highways, delivery tunnels, aqueducts, and control structures with required gates, valves, motors, and other equipment.

PUBLICATIONS: *Water Supply Systems of the City of New York* (brochure, available in limited amount); an annual report, including both fiscal and engineering reports.

INFORMATION SERVICES: Answers inquiries; exchanges information with comparable agencies throughout the United States.

NEW YORK CITY DEPARTMENT OF PUBLIC WORKS

1732 Municipal Bldg.
New York, N.Y. 10007
Tel: (212) 566-4446

AREAS OF INTEREST: Design, construction, and maintenance of public buildings.

HOLDINGS: Reports, charts, maps, data.

PUBLICATIONS: Annual report.

INFORMATION SERVICES: Inquiries relating to the Department's technical operations and activities are referred to professional and technical personnel within the Department for reply.

NEW YORK CITY DEPARTMENT OF WATER RESOURCES

1733 Municipal Bldg.
New York, N.Y. 10007
Tel: (212) 566-3340

AREAS OF INTEREST: Operation and maintenance of New York City's water supply and water pollution control system, and design and construction of the water distribution system, sewerage system, and water pollution control plants within the City; reservoirs; transmission lines; water and sewage pumping stations; sanitary engineering; municipal water supply engineering; civil, electrical, and mechanical engineering; water quality; water analysis; water and sewage chemistry; water purification; industrial waste control; advanced waste treatment; water and sewerage requirements; estuarine analysis; mathematical modeling; algol studies; fleet management (vessels).

PUBLICATIONS: Annual report; technical papers delivered before professional societies, such as A.S.C.E., Sanitary Division, Federation of Water Pollution Control, and American Water Works Association; leaflets, primarily for school children, describing the City's water supply system.

INFORMATION SERVICES: Answers inquiries.

NEW YORK CITY POLICE DEPARTMENT

Scientific Research Office

1734 New York City Police Department
235 East 20th St., Room 834
New York, N.Y. 10003
Tel: (212) 677-1133

AREAS OF INTEREST: Forensic science; narcotics; amphetamines; barbiturates; hallucinogens; heavy metals; household chemicals; radioactive chemicals; organic solvents; pesticides; gases.

HOLDINGS: A small collection of books, periodicals, and reports.

INFORMATION SERVICES: Answers inquiries from most groups requesting information. In addition, the Office provides free consulting, reference, literature-searching, and referral services to law enforcement agencies.

NEW YORK CITY TRANSIT AUTHORITY

1735 370 Jay St.
Brooklyn, N.Y. 11201
Tel: (212) 852-5000

AREAS OF INTEREST: Rapid transit, surface operation, and construction within the City of New York (transportation, subways, buses, rapid transit, statistics).

HOLDINGS: Engineering Library; Law Library with proceedings of various Commissions and Boards (Public Service Commission, Transit Commission, Office of Transportation Construction Commissioner, Rapid Transit Board and Commissioners, Board of Transportation); proceedings of the Transit Authority; contract documents of existing rapid transit facilities.

PUBLICATIONS: *Transit Record* (monthly); proceedings of the Authority (annual); annual report.

INFORMATION SERVICES: Provides limited reference services.

NEW YORK MICROSCOPICAL SOCIETY

1736 c/o American Museum of Natural History
Central Park West at 79th St.
New York, N.Y. 10024

AREAS OF INTEREST: Theory and application of microscopy, primarily light microscopy (although some electron microscopy is included); microscopy as related to biology, medicine, metallurgy, crystallography, textiles, chemicals, paper, foods, optics, and instrumentation.

HOLDINGS: 1,000 books; periodicals; microscope slides and equipment.

PUBLICATIONS: Yearbook, containing abstracts of technical papers presented at meetings and technical reports on microscopy.

INFORMATION SERVICES: Provides consulting services on request; lends materials and permits onsite use of slides and equipment by permission of the Board of Managers; conducts regular meetings and symposia.

NEW YORK PUBLIC LIBRARY

Science and Technology Division

1737 New York Public Library
Fifth Ave. at 42d St.
New York, N.Y. 10018
Tel: (212) 695-4200

AREAS OF INTEREST: Aeronautics; astronautics; astronomy; automobiles; biochemistry; chemistry; communications; earth sciences; electricity; electronics; engineering (all branches); industrial arts; mathematics; metallurgy; mining; navigation; paper; petroleum; physics; plastics; radio; railroads; rubber; science (history).

HOLDINGS: Approximately 154,000 books and 365,000 bound journals.

PUBLICATIONS: *New Technical Books* (10 issues a year).

INFORMATION SERVICES: Answers inquiries; provides duplication services through the Library's Photographic Service; permits onsite reference.

NEW YORK STATE AGRICULTURAL EXPERIMENT STATION, GENEVA

1738 Geneva, N.Y. 14456
Tel: (315) 787-2214

AREAS OF INTEREST: Fruits and vegetables (planting, pest and insect control, disease control, processing, development of improved varieties); agricultural and food processing industries; chemistry; bacteriology.

HOLDINGS: Books, journals, other items.

PUBLICATIONS: Technical reports and bulletins.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

NEW YORK STATE DEPARTMENT OF COMMERCE

Division of Industrial Sciences and Technologies

1739 New York State Department of Commerce
112 State St.
Albany, N.Y. 12207
Tel: (518) 474-6285

AREAS OF INTEREST: Atomic energy; space development; marine sciences; ocean engineering; other science-oriented or advanced technology industries.

HOLDINGS: Books, journals, reports, data.

INFORMATION SERVICES: Answers inquiries; provides reference and consulting services.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

1740 Albany, N.Y. 12201

Location:
50 Wolf Rd.
Albany, N.Y.
Tel: (518) 457-5400 (General information)
(518) 457-3720 (Conservation education and line conservation activities)
(518) 457-3495 (Water resources information)

AREAS OF INTEREST: Water resources planning and development; intermunicipal water supply planning; water quality; air quality; solid wastes; fish and wildlife; forest and land use; mineral resources; natural beauty; pesticide control; public education; forest preserves; flood prevention and control; outdoor recreational resources.

PUBLICATIONS: *The Conservationist* (bimonthly); Bulletin series describing water resources investigations conducted in cooperation with the U.S. Geological Survey; annual report. A publications list is available.

INFORMATION SERVICES: Answers inquiries on specific problems; makes referrals.

NEW YORK STATE DEPARTMENT OF HEALTH

Division of Pure Waters

1741 New York State Department of Health
84 Holland Ave.
Albany, N.Y. 12208
Tel: (518) 474-2040

AREAS OF INTEREST: Water pollution; water resources; water supply.

HOLDINGS: Data generated through water pollution control and water supply activities.

PUBLICATIONS: Reports and booklets, available on request.

INFORMATION SERVICES: Answers inquiries, makes referrals, and permits onsite reference to data files for water pollution control agencies and other governmental units.

NEW YORK STATE DEPARTMENT OF LABOR

Division of Industrial Safety Service

1742 New York State Department of Labor
80 Centre St.
New York, N.Y. 10013
Tel: (212) 488-7760

AREAS OF INTEREST: Industrial safety.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

NEW YORK STATE DEPARTMENT OF TRANSPORTATION

Metropolitan Office

1743 New York State Department of
Transportation
500 Fifth Ave., Room 5432
New York, N.Y. 10036
Tel: (212) 488-6613

AREAS OF INTEREST: Transportation, including general, rail, air, water, highway, and mass transit.

HOLDINGS: The Office serves as a repository for some published information on transportation in New York State. In addition, it has reference material on mass transit operations in New York and other cities and national transportation data.

PUBLICATIONS: *Railroad Tax Relief Report* (annual) and annual report (both free on request); reviews, pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and limited bibliographic services.

NEW YORK STATE LIBRARY

1744 Education Bldg.
Albany, N.Y. 12224
Tel: (518) 474-5958

AREAS OF INTEREST: New York State history; local history and genealogy; education; law; medicine; Americana; social sciences; sciences; technology, including engineering.

HOLDINGS: 4 million books; pamphlets, manuscripts, periodicals, newspapers; U.S. Government publications, patents, and departmental publications of the State; selected publications of other States and of foreign nations.

PUBLICATIONS: *Bookmark* (10 issues a year), a compilation of booklists and articles on library service; *Checklist of New York State Publications* (monthly); various subject checklists of library holdings; special bibliographies.

INFORMATION SERVICES: Permits onsite reference; lends unrestricted publications to certain special classes of borrowers designated by the Board of Regents of the University of the State of New York; provides liberal interlibrary loan services (in cases where material is not available for loan, photocopies of less than 24 pages are provided to libraries at no charge); provides mail, telephone, and teletype referral services, within reasonable limitation; provides limited literature-searching services; identifies rare books, manuscripts, and other historical materials; provides consultation on library organization and administration; on occasion, translates literature from the major European languages, usually for official purposes.

NEW YORK SUGAR TRADE LABORATORY

1745 37 Warren St.
New York, N.Y. 10007
Tel: (212) 233-4077

AREAS OF INTEREST: Sugar chemistry; methods of sugar analysis; chemistry of cane molasses, particularly the nature of color bodies formed.

HOLDINGS: Technical reports, data compilations.

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite use of collection.

NEW YORK UNIVERSITY

Project SETE (Secretariat for Electronic Test Equipment)

1746 Division of Engineering and Science
New York University
Research Bldg. 3
233 Fordham Landing Rd.
Bronx, N.Y. 10468
Tel: (212) 584-0700

Project SETE is a scientific information center operated by and for the U.S. Government. Support, direction, and principal utilization are shared by Army, Navy, Air Force, and NASA. Administration is by the Naval Electronic Systems Command. The primary object is to provide a national center for the accumulation, coordination, and exchange of scientific and technical information in the specialized field of electronic test, checkout, and support equipment. Project SETE divided the overall electronic instrumentation field into approximately 90 categories, with special emphasis on automatic test equipment. To allow effective access to desired pertinent information, a manual information retrieval system has been developed and is in daily use. The Project covers both military and commercial products and associated research and development programs.

AREAS OF INTEREST: General-purpose electronic test equipment; built-in test and monitoring equipment; calibration devices; missile, aircraft, and electronic systems checkout; simulators for test applications and training devices; new measurement techniques.

HOLDINGS: File of available equipment arranged alphabetically by manufacturer; a military nonmenclature test equipment card file; file of research and development reports; patent file; military specification file.

INFORMATION SERVICES: Project SETE provides information in the form of reports, tabulations, and summary reviews of commercial and military electronic test equipments. The Project keeps abreast of developments in applications techniques and metrology programs, provides information to answer technical questions, prepares state-of-the-art reviews, and, under certain conditions, can supply technical consultant services to assist in evaluating Government sponsored test equipment research and development programs. No charges are made for services, which are available primarily to U.S. Government personnel. Undertakings involving considerable effort require approval of the Project SETE Steering Group, which meets at least four times a year. Technical information is also available in many cases to Government contractors engaged in efforts relating to electronic instrumentation. Information is also made available to others in the field as time and facilities permit.

NEW YORK--VERMONT INTERSTATE COMMISSION ON THE LAKE CHAMPLAIN BASIN

1747 c/o Interagency Committee on Natural Resources
Montpelier, Vt. 05602
Tel: (802) 223-2311 Ext. 489

AREAS OF INTEREST: Forestry; fish and wildlife; water pollution; recreation; planning; industrial development; education; mineral resources.

PUBLICATIONS: Annual report, press releases.

INFORMATION SERVICES: Answers brief inquiries pertaining to Lake Champlain Basin; makes referrals; provides consulting services to local planning boards.

NEWARK PUBLIC LIBRARY

Science and Technology Division

1748 Newark Public Library
P.O. Box 630
Newark, N.J. 07101

Location:

5 Washington St.
Newark, N.J.
Tel: (201) 624-7100

AREAS OF INTEREST: Pure and applied science, with emphasis on chemistry and metallurgy, and secondary emphasis on geology and zoology of New Jersey and the Middle Atlantic area.

HOLDINGS: 55,400 books; 64,000 periodicals; 21,000 standards and specifications; 10,200 microfilm; 6,400 microfiche; 1,700 abstracts; 360 bibliographies; U.S. Patents (since 1880) and Official Gazette of Patent Office; complete file of Abridgments of British Patents.

PUBLICATIONS: *Technology in Print* (5 issues a year).

INFORMATION SERVICES: Answers inquiries; makes referrals; makes direct and interlibrary loans; permits onsite reference; accepts copy orders for printed and microform materials.

NEWCOMEN SOCIETY IN NORTH AMERICA

Thomas Newcomen Memorial Library in Steam and Business History

1749 Newcomen Society in North America
P.O. Box 113
Downingtown, Pa. 19335

Location:
412 East North Ship Rd.
Exton, Pa.
Tel: (215) 363-6600

AREAS OF INTEREST: History of steam and steam technology, including steam engines and boilers; locomotive engines; marine engines; steam automobiles; traction engines.

HOLDINGS: 5,000 books; 50 periodicals; 1,100 trade catalogs of steam-engine and steam-boiler manufacturers; pamphlets, journals, manuscripts, drawings, bibliographies; museum collection of operating models.

PUBLICATIONS: *Index of Publications* (1933-61) and supplements (1962-1969); 877 publications of Newcomen addresses.

INFORMATION SERVICES: Answers inquiries; provides reference services; permits onsite reference, preferably by special arrangement; makes interlibrary loans.

NEWPORT NEWS SHIPBUILDING AND DRY DOCK CO.

Technical Information Center

1750 Newport News Shipbuilding and Dry Dock Co.
4101 Washington Ave.
Newport News, Va. 23607
Tel: (703) 247-1211 Ext. 2610

AREAS OF INTEREST: Engineering, including mining, welding, marine, civil, chemical, structural, mechanical, and fire protection; mathematics, including partial differential equations, topology, continuum mechanics, algebra, linear programming, statistics, and numerical analysis; physics, including underwater acoustics, optics, and solid state (lasers, masers, semiconductors); thermodynamics and heat transmission; photography; data processing, including electronic calculating machine (digital and analogy), information storage and retrieval, cryogenics, cybernetics, and time sharing; geology, including glacial, sedimentology, mineralogy, and hydrology; aeronautics; all fields of chemistry; technical writing; management; hydraulics; machinery, including turbines, water power equipment, and bearings; lubrication; electronics and electricity; plastics; naval architecture and shipbuilding; mining and metallurgy; maritime law; pollution, including air, noise, thermal, and water.

HOLDINGS: 25,000 books; 100,000 documents (reports, papers, photocopies); 50 maps and charts; 475 periodicals; 10,000 patents; 200 annual reports; 25 special services in the fields of law, accounting, contracts, and procurement; 28 major reference indexes; historical literature on the history of the Company; college catalogs. The Center is a depository for unclassified NASA and DTMB reports.

PUBLICATIONS: *Library Bulletin* (weekly).

INFORMATION SERVICES: Provides reference and inhouse literature-searching services; makes interlibrary loans; permits onsite use of collection.

NIAGARA MOHAWK POWER CORP. LIBRARIES

1751 300 Erie Blvd. West
Syracuse, N.Y. 13202
Tel: (315) 474-1511

AREAS OF INTEREST: All phases of engineering, gas, and electricity, with specific emphasis on utility industry.

HOLDINGS: Books, reports, journals, including ANSI and ASTM publications.

PUBLICATIONS: Index.

INFORMATION SERVICES: Provides reference services; permits onsite reference by request.

NININGER METEORITE COLLECTION

see Arizona State University

NONDESTRUCTIVE TESTING INFORMATION ANALYSIS CENTER

see Army, Department of the. Army Materiel Command. Army Materials and Mechanics Research Center

NORTH AMERICAN ROCKWELL CORP.

MGD Graphic Systems Division

Goss Division

INFORMATION SERVICES DEPARTMENT

1752 Goss Division
5601 West 31st St.
Chicago, Ill. 60650
Tel: (312) 656-8600

AREAS OF INTEREST: Machinery design; manufacturing methods; business management; printing presses and other printing equipment; printing processes; mechanical engineering; electrical engineering; electronics; graphic arts.

HOLDINGS: 2,500 books; 900 vendors' and trade catalogs; 200 periodical titles; 32 file cabinet drawers of preprints, reprints, and other technical pamphlets; 1 file cabinet drawer of bibliographies prepared by the Company and other organizations in the graphic arts; VSMF vendors' and trade catalogs in microfilm cartridges containing about 6,500 catalogs; Company's archive and historical materials.

INFORMATION SERVICES: Answers inquiries from bona fide employees of the printing industry; makes interlibrary loans; permits onsite use of collection by prior arrangement.

Facilities include microfilming and photoduplication equipment, and an IBM 1050 time-sharing terminal.

Mossbauer Effect Data Center

1753 Science Center, North American Rockwell Corp.
1049 Camino Dos Rios
Thousand Oaks, Calif. 91360
Tel: (805) 498-4545

AREAS OF INTEREST: Mossbauer effect.

HOLDINGS: 1,000 reprints; books, punched card data files.

PUBLICATIONS: *Mossbauer Effect Data Index* (1958-1965, available by purchase from John Wiley Interscience Publishers, New York); data handbook, bibliography, directory.

INFORMATION SERVICES: Permits use of the original punched card data files by special arrangement. Limited inquiries for specific information not available in the *Index* will be considered. Copies of articles from unusual sources may be provided upon request.

NORTH CAROLINA AGRICULTURAL EXPERIMENT STATION

see North Carolina State University at Raleigh

NORTH CAROLINA BOARD OF SCIENCE AND TECHNOLOGY

North Carolina Science and Technology Research Center

1754 P.O. Box 12235
Research Triangle Park, N.C. 27709
Tel: (919) 549-8291

AREAS OF INTEREST: Applications of science and technology to problems of industry, business, and Government; physical sciences; engineering; biosciences.

HOLDINGS: 175,000 reports on microfiche; computer index to 600,000-item collection of recent reports and journal articles (11 magnetic disk packs); 2,000 bibliographies; 8,000 NASA technical reports (printed copy); 200 reports of current research at local universities; abstract journals covering international research and development work in aerospace-related fields and textiles.

INFORMATION SERVICES: Answers inquiries; performs retrospective searches manually and by computer; provides current awareness service; provides copies of abstracts and documents. Staff engineers assist in application of new technology to specific problems. Services are available to clients for fees based on cost of processing; limited free service is provided in some cases.

NORTH CAROLINA DEPARTMENT OF AGRICULTURE

Soil Testing Division

1755 North Carolina Department of Agriculture
Raleigh, N.C. 27601
Tel: (919) 834-3611 Ext. 335

AREAS OF INTEREST: Soil analysis.

HOLDINGS: Soil samples, data compilations, maps and charts, books, periodicals, newsletters, pamphlets, motion pictures, photos, slides.

INFORMATION SERVICES: Answers inquiries; analyzes soil samples for farmers; provides consulting services; makes referrals; lends films and slides.

NORTH CAROLINA DEPARTMENT OF CONSERVATION AND DEVELOPMENT

Division of Mineral Resources

1756 North Carolina Department of Conservation and Development
P.O. Box 27687
Raleigh, N.C. 27611
Tel: (919) 829-3833

AREAS OF INTEREST: Geology and mineral resources of North Carolina; asbestos; clays; mica; pyrophyllite; spodumene; phosphate; feldspar; talc; cement; olivine; sand and gravel; stone; gemstones; tungsten.

HOLDINGS: Books, journals, reports, maps, charts, slides, photos, specimens, devices, samples, graphs, tables, preprints, reprints, bibliographies, pamphlets.

PUBLICATIONS: Maps and charts, reports, pamphlets, educational series, information circulars, bulletins, economic papers. A price list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and bibliographic services; permits onsite reference.

NORTH CAROLINA DEPARTMENT OF WATER AND AIR RESOURCES

1757 P.O. Box 27048
Raleigh, N.C. 27611
Tel: (919) 829-3003

AREAS OF INTEREST: Development of the State's water resources; water and air pollution control; basic water resource information; flood control; small watershed development; beach erosion and shore protection; water quality; water rights and allocation of use; ground-water development; industrial and municipal water supply; water economics.

HOLDINGS: Reports, data.

PUBLICATIONS: *Biennial Report of Progress*; *North Carolina Water Plan Reports*; *Bulletins of Ground Water Investigations*; *Bulletins of Chemical and Physical Characteristics of Municipal Water Supplies*; *Bulletins of Chemical and Physical Character of Surface Waters*; *Pollution Survey Reports*; *Schedules of Classifications Assigned to Surface Waters*; special reports on water programs, policies, and problems; inventory reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services free or on cost basis; permits onsite use of collection.

NORTH CAROLINA STATE MINERALS RESEARCH LABORATORY

1758 180 Coxe Ave.
Asheville, N.C. 28801
Tel: (704) 253-0371

AREAS OF INTEREST: Engineering, with emphasis on nonmetallic mineral beneficiation, including froth flotation, gravity, and magnetic and electrostatic separation; wet and dry grinding and classification.

PUBLICATIONS: *Quarterly Bulletin*; brochures, project reports.

INFORMATION SERVICES: Answers inquiries; identifies minerals; performs contractual projects for individual industries, with priority given to North Carolina industry.

Facilities include pilot plant equipment for froth flotation, gravity separation, wet and dry grinding, and wet and dry bench testing.

NORTH CAROLINA STATE UNIVERSITY AT RALEIGH

D. H. Hill Library

1759 North Carolina State University
Raleigh, N.C. 27607
Tel: (919) 755-2844

AREAS OF INTEREST: Physical sciences; engineering; applied mathematics; textiles; architecture; agriculture; forestry; wood products; tobacco; education; biological sciences; genetics; entomology; statistics; liberal arts.

HOLDINGS: 500,000 books; 6,000 periodical titles; 50,000 technical reports; extensive collection of handbooks, manuals, standards, data sheets, dictionaries, and Government documents.

INFORMATION SERVICES: Answers inquiries; provides reference, literature-searching, and duplication services; makes interlibrary loans. Extended services are available to University personnel only, except services provided to industry by the Library's Technical Information Center, described below.

Technical Information Center

1760 D. H. Hill Library
North Carolina State University
P.O. Box 5007
Raleigh, N.C. 27607
Tel: (919) 755-2830

The Technical Information Center provides information resources and services for the purpose of encouraging the effective application of scientific information to industry, business, and commerce in North Carolina.

AREAS OF INTEREST: Scientific, technical, and management problems of concern to industry.

HOLDINGS: The Center uses the collections of the D. H. Hill Library.

PUBLICATIONS: Bibliographies.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference, literature-searching, and duplication services; sponsors workshops and seminars. Services are available to industry, trade associations, and State and Federal Government agencies in North Carolina.

Department of Experimental Statistics

1761 North Carolina State University at Raleigh
Box 5457
Raleigh, N.C. 27607
Tel: (919) 755-2528

AREAS OF INTEREST: Statistical theory; statistical method as applied to biology, industry, engineering, and agriculture; operations research.

HOLDINGS: A library of statistical computer programs available on tapes; technical reports, reprints, reviews.

PUBLICATIONS: *A Record of Research* (biennial); technical reports, reviews, reprints.

INFORMATION SERVICES: Answers inquiries; provides consulting services (a fee is charged for extensive consultation); furnishes reprints (single requests free); prepares analyses and evaluations.

Department of Soil Science

1762 North Carolina State University
P.O. Box 5907
Raleigh, N.C. 27607
Tel: (919) 755-2655

AREAS OF INTEREST: Soil science, including soil chemistry, soil physics, soil microbiology, soil fertility and fertilizers, soil genesis and classification, soil management, soil-plant relations, forest soils, tropical soils, nonfarm (urban-suburban) interpretations of soil properties and agricultural soil surveys, pollution-contamination of soils by pesticides, and water pollution by fertilizers and pesticides applied to soils.

HOLDINGS: 500 books; 25 periodical titles.

PUBLICATIONS: *Information Series Bulletin* (irregular).

INFORMATION SERVICES: Answers inquiries; makes referrals.

North Carolina Agricultural Experiment Station

1763 North Carolina State University
P.O. Box 5847
Raleigh, N.C. 27607
Tel: (919) 755-2717

AREAS OF INTEREST: Production, utilization, and marketing of field crops, horticultural crops, livestock, and poultry; forestry; wood and paper science; marine biology; environmental quality; conservation; wildlife resources and recreation; basic biological sciences, including biochemistry, botany, entomology, genetics, microbiology, plant pathology, and zoology; plant environment control; experimental statistics; economics; rural sociology; biological and agricultural engineering.

HOLDINGS: 550,000 books; 6,500 journal titles.

PUBLICATIONS: *Research and Farming* (quarterly); *Tarheel Farm Economist* (monthly); *Agricultural Policy Review* (quarterly); *Tobacco Abstracts* (monthly); data handbook, technical reports and bulletins, bibliographies, standards and specifications.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

Nuclear Engineering Department

1764 North Carolina State University
P.O. Box 5506
Raleigh, N.C. 27607

Tel: (919) 755-2302 or 755-2322

AREAS OF INTEREST: Nuclear engineering, sciences, physics, reactors, processing, radiation, kinetics, technology, and safety.

HOLDINGS: Books, reports, reviews, standards and specifications, project records, graphs, tables, periodicals, abstracts, indexes, newsletters, newspapers, reprints, bibliographies, pamphlets, booklets, leaflets, brochures, press releases, clippings.

PUBLICATIONS: Books, monographs, reviews.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services, which may be subject to fee; provides reference and bibliographic services; permits onsite use of collection.

School of Forest Resources

Department of Wood and Paper Science

1765 School of Forest Resources
North Carolina State University
Box 5488
Raleigh, N.C. 27607
Tel: (919) 755-2884

AREAS OF INTEREST: Wood science and technology, pulp and paper science and technology.

HOLDINGS: A small working library is maintained in the Department; an extensive collection of books, periodicals, and reports is maintained in the Central University Library.

PUBLICATIONS: Research reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services; conducts research in wood and wood fibers and their products for fee.

School of Textiles Library

1766 North Carolina State University
Box 5006
Raleigh, N.C. 27607
Tel: (919) 755-2562

AREAS OF INTEREST: Textile technology; textile chemistry; textile marketing; polymer chemistry applied to textiles.

HOLDINGS: 4,975 books; 5,300 bound journals; 345 periodical titles; trade catalogs, fabric samples.

INFORMATION SERVICES: Answers inquiries; provides reference services; provides duplication services for fee; makes interlibrary loans; permits onsite reference.

NORTH DAKOTA AERONAUTICS COMMISSION

1767 P.O. Box U
Bismarck, N. Dak. 58502

Location:
Bismarck Municipal Airport
Airport Rd.
Bismarck, N. Dak.
Tel: (701) 233-6809

AREAS OF INTEREST: Airport design, construction, and operation; North Dakota airport maps; rules and regulations governing aeronautics in North Dakota; creation of both municipal and regional airport authorities.

HOLDINGS: 1,000 books; 300 technical reports; 18 motion pictures; 180 photos; 9,000 microforms (pilots and aircraft identity); 5,500 maps and charts; 300 project records; 180 standards and specifications; abstracts, newsletters, bibliographies, pamphlets, press releases, publication lists, posters and other display materials, data compilations.

PUBLICATIONS: *Airport Design*; *Rules and Regulations.*

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite use of literature collection.

NORTH DAKOTA AGRICULTURAL EXPERIMENT STATION

1768 North Dakota State University
State University Station
Fargo, N. Dak. 58102
Tel: (701) 237-7655

AREAS OF INTEREST: Agricultural sciences.

HOLDINGS: An extensive collection of books, journals, and technical reports; plant and animal specimens; soil samples.

PUBLICATIONS: *Farm Research* (bimonthly); bulletins.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite reference.

NORTH DAKOTA BUSINESS AND INDUSTRIAL DEVELOPMENT DEPARTMENT

1769 State Office Bldg.
Bismarck, N. Dak. 58501
Tel: (701) 224-2810 or 224-2811

AREAS OF INTEREST: Industrial and business development of North Dakota; general and geographic information on North Dakota.

HOLDINGS: A large collection of resource material on economic development of North Dakota; a working collection of books, periodicals, and reports.

PUBLICATIONS: Directories, reports, surveys, studies.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides advisory, reference, literature-searching, and duplication services; makes interlibrary loans.

NORTH DAKOTA DEPARTMENT OF COAL MINE INSPECTION

1770 Capitol Bldg.
Bismarck, N. Dak. 58501
Tel: (701) 224-2719

AREAS OF INTEREST: Coal mining in North Dakota; bituminous coal and lignite.

PUBLICATIONS: Pamphlets (Mine Licensing Laws and Mining Code of State of North Dakota), biennial report, data compilations.

INFORMATION SERVICES: Provides consulting services.

NORTH DAKOTA DEPARTMENT OF HEALTH

Division of Water Supply and Pollution Control

1771 North Dakota Department of Health
State Capitol Bldg.
Bismarck, N. Dak. 58501
Tel: (701) 224-2386

AREAS OF INTEREST: Municipal and private water supply; water treatment; water analysis and interpretation; municipal, private, and industrial waste treatment; swimming pool sanitation; water pollution control.

PUBLICATIONS: *Official Bulletin* of the North Dakota Water and Sewage Works Conference (bimonthly); numerous reports and reprints on water supplies and waste treatment in North Dakota.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services only as an exception.

NORTH DAKOTA GEOLOGICAL SURVEY

1772 University Station
Grand Forks, N. Dak. 58201
Tel: (701) 777-2231

AREAS OF INTEREST: Economic geology, emphasizing oil, gas, lignite, and other nonmetallic mineral resources; areal geology; hydrogeology; environmental geology.

HOLDINGS: 1,000 books; 7 tapes; 400 slides; logs on 4,000 wells; maps, abstracts, indexes. The Survey is a depository for U.S. Geological Survey publications, North Dakota oil well data, North Dakota Geologic Survey publications, and open-file geologic reports.

PUBLICATIONS: Reports, bulletins, circulars, maps, bibliography.

INFORMATION SERVICES: Answers inquiries; permits onsite reference; provides identification of rocks, minerals, and fossils; provides geologist speakers; provides educational material for schools and contractors.

NORTH DAKOTA STATE LABORATORIES DEPARTMENT

1773 Box 937
Bismarck, N. Dak. 58501
Tel: (701) 223-8000 Ext. 418 or 419

AREAS OF INTEREST: Enforcement of laws affecting labeling and purity of products offered for sale within the State (foods, drugs, beverages, cosmetics, petroleum products, paints and varnishes, pesticides, commercial feeds and fertilizers, livestock medicines, antifreezes for engine cooling systems, etc.) and licensing and sanitation of designated categories of public establishments in the State; analysis of well waters for home and farm use and of water intended for irrigation.

PUBLICATIONS: Bulletins giving test results of various products are published periodically, including *Paint*

Bulletin, Food and Drug Bulletin, Petroleum Products Bulletin, Feed, Fertilizer, and Pesticide Bulletin, and *Antifreeze Products Bulletin.*

INFORMATION SERVICES: Answers inquiries; disseminates bulletins (a fee is charged for out-of-State requests).

NORTH DAKOTA STATE SOIL CONSERVATION COMMITTEE

1774 Capitol Bldg.
Bismarck, N. Dak. 58501
Tel: (701) 224-2650 or 224-2651

AREAS OF INTEREST: Conservation of the soil and soil resources of the State; prevention of soil erosion; preservation of natural resources; flood control; administration of watershed program in North Dakota.

PUBLICATIONS: Periodic newsletter (sent to all supervisors in the program); periodic brochure covering watershed program in North Dakota (available free).

INFORMATION SERVICES: Answers inquiries within limits of staff time.

NORTH DAKOTA WATER AND POLLUTION CONTROL CONFERENCE

1775 State Capitol Bldg.
Bismarck, N. Dak. 58501
Tel: (701) 224-2386

AREAS OF INTEREST: Water treatment; sewage treatment; waste treatment and waste stabilization; water works operation.

HOLDINGS: A journal collection dating from 1935.

PUBLICATIONS: *Official Bulletin* (bimonthly, available on subscription).

INFORMATION SERVICES: Answers brief inquiries.

NORTH DAKOTA WATER COMMISSION

1776 State Office Bldg.
Bismarck, N. Dak. 58501
Tel: (701) 224-2750

AREAS OF INTEREST: Water resources and water projects in North Dakota.

HOLDINGS: 1,525 projects records; 75 reports; 600 standards and specifications; 1,200 maps and charts; 3,500 water samples; graphic and tabular material.

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Answers inquiries and provides data on the States's water resources and water projects; makes referrals; permits onsite use of collection.

NORTH DAKOTA WATER RESOURCES RESEARCH INSTITUTE

1777 North Dakota State University
So. Eng. 216
Fargo, N. Dak. 58102
Tel: (701) 237-7765

AREAS OF INTEREST: Research on water pollution; water quality; waste disposal; evaporation and evapotranspiration; irrigation, including economic aspects; biological aspects of water development; economic analysis of water development; planning for water resource development.

INFORMATION SERVICES: Answers inquiries; provides consulting services; distributes research publications on request.

NORTH TEXAS STATE UNIVERSITY LIBRARY

1778 P.O. Box 5188
Denton, Tex. 76203
Tel: (817) 387-4511 Ext. 322

AREAS OF INTEREST: General university library subjects, including mathematics, physics, biology, music, business administration, education, economics, political science, government, sociology, gerontology, anthropology, history, and psychology.

HOLDINGS: 730,000 volumes of books and bound periodicals; 4,500 current periodicals; Government depository collection of approximately 77,000 volumes.

INFORMATION SERVICES: Makes interlibrary loans and provides photocopies to Government agencies and business; makes direct loans to students, faculty, and residents of Denton; permits onsite reference. Resources of five major university libraries in the Dallas-Ft. Worth area are available through private line teletype in addition to TWX installation.

NORTHAMERICAN ASSOCIATION OF SHEET METAL DISTRIBUTORS (NASMD)

1779 1200 West 5th Ave.
Columbus, Ohio 43212
Tel: (614) 488-9769

AREAS OF INTEREST: Sheet metals; roofing; roof drainage materials; heating and air conditioning equipment.

INFORMATION SERVICES: Answers brief inquiries.

NORTHEAST UTILITIES SERVICE CO. LIBRARY

1780 P.O. Box 270
Hartford, Conn. 06101

Location:

Selden St.
Berlin, Conn.
Tel: (203) 666-6911

AREAS OF INTEREST: Electrical and mechanical engineering; public utility economics; electric utilities; gas utilities; water resources; air and water pollution.

HOLDINGS: 5,000 books; 100 periodical titles; AIEE, ASME, and IEEE transactions; EEI material.

INFORMATION SERVICES: Answers inquiries; provides reference services; lends materials; permits onsite use of collection.

NORTHEAST WEATHER SERVICE

1781 131 A Great Rd.
Bedford, Mass. 01730
Tel: (617) 275-8860

AREAS OF INTEREST: Weather forecasts applied to specific problems of industry and public works departments; air pollution studies for plant locations and design; air pollution forecasts; climatological studies.

HOLDINGS: Small reference library; 25,000 data compilations.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services for fee; permits onsite use of collection.

NORTHEASTERN FOREST FIRE PROTECTION COMMISSION

1782 196 Bushy Hill Rd.
Simsbury, Conn. 06070
Tel: (203) 658-4547

AREAS OF INTEREST: Forest fire prevention and control.

PUBLICATIONS: *Quarterly News*; training books, annual report.

INFORMATION SERVICES: Answers inquiries.

The Commission is composed of representatives from the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, and New York.

NORTHEASTERN LOGGERS' ASSOCIATION

1783 Old Forge, N.Y. 13420
Tel: 567 (through operator, Old Forge, N.Y.)

AREAS OF INTEREST: Logging; sawmilling; safety; forest management; forest research; forest products utilization, particularly utilization of low-grade wood and wood waste.

HOLDINGS: Small collection of books, journals, and reports; exhibit hall depicting policies, practices, and products of forest industries.

PUBLICATIONS: *The Northern Logger* (monthly); technical reports, conference proceedings, directory.

INFORMATION SERVICES: Provides consulting and document services; makes referrals.

NORTHEASTERN UNIVERSITY

College of Engineering

1784 Northeastern University
360 Huntington Ave.
Boston, Mass. 02115
Tel: (617) 437-2152

AREAS OF INTEREST: Mathematics; physics; mechanical, electrical, civil, industrial, chemical, and biomedical engineering.

HOLDINGS: Approximately 50,000 books and 1,000 periodical titles.

PUBLICATIONS: Books, reports, technical papers.

INFORMATION SERVICES: Answers inquiries; provides consulting and duplication services; makes interlibrary loans; permits onsite use of collection. A fee is charged for some services, depending on the service.

NORTHEASTERN WEED CONTROL CONFERENCE

1785 c/o Dr. Arthur Bing, Secretary-Treasurer
Cornell Ornamentals Research Laboratory
Farmingdale, N.Y. 11735
Tel: (516) 249-1540

AREAS OF INTEREST: Weed control, including weed control in marsh and pond areas; weed control aspects of conservation and forestry; herbicides.

PUBLICATIONS: *Proceedings of the Northeastern Weed Control Conference* with a supplement, containing data on weed control contributed by researchers participating in the Conference; newsletter.

INFORMATION SERVICES: Answers inquiries; makes referrals.

NORTHERN ILLINOIS UNIVERSITY

Earth Science Department

1786 Northern Illinois University
Dekalb, Ill. 60115
Tel: (815) 753-1817

AREAS OF INTEREST: Earth sciences; natural resources; regional analysis; geology; geography; soils; heat balance; meteorology; climatology; land forms; cartography; aerial photo interpretation; quantitative geomorphology; water resources, including planning and water balance studies; hydrology; floods; hydrometeorology; watershed management.

HOLDINGS: Project records, data compilations.

INFORMATION SERVICES: Answers inquiries; provides consulting services for fee.

NORTHERN TESTING LABORATORIES, INC.

1787 P.O. Box 1561
Great Falls, Mont. 59401

Location:
528 Smelter Ave.
Great Falls, Mont.
Tel: (406) 453-1641

AREAS OF INTEREST: Asphalt; cement; steel; wood; aggregate; concrete; masonry products; pipe testing; soils and foundation investigations; geology; air and water pollution testing and mointoring; sound level measurement; welder certification; welding process testing; coal analysis; chemical testing and analysis; agricultural soil testing; domestic and industrial water testing and monitoring; construction project management; gasoline and oil testing; gage calibration; product certification.

HOLDINGS: 400 books; 2,800 project records; 750 standards and specifications; 1,250 reports; 1,000 periodicals; maps; coded and onsite retrieval system based on EJC group descriptor-key word system.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and consulting services; permits onsite reference.

The Laboratories have facilities for field and laboratory testing of construction materials, for performing chemical analysis (including spectrophotometer), and drill rigs for field exploration.

NORTHERN TEXTILE ASSOCIATION

1788 211 Congress St.
Boston, Mass. 02110
Tel: (617) 542-8220

AREAS OF INTEREST: Textiles, including cotton, synthetic, wool, and felt; history of textiles; textile mills; textile chemistry.

HOLDINGS: Strong library on history of textiles, textile mills, and textile chemistry.

INFORMATION SERVICES: Answers inquiries; permits onsite use of collection.

NORTHROP INSTITUTE OF TECHNOLOGY

Pacific Technical Information Services of Alumni Library

1789 1155 West Arborvitae
Inglewood, Calif. 90301
Tel: (213) 776-5466

AREAS OF INTEREST: Aerospace; aeronautics; astronautics; metals and materials; management science; oceanology; aviation history.

HOLDINGS: 7,000 books; 10,000 journals; 75,000 reports; 14,000 preprints and reprints; 10,000 microforms.

INFORMATION SERVICES: Since the Library is a cooperative subscription library for industry, it is open only for onsite reference use to nonsubscribers. Other services are available to subscribing members.

NORTHWEST PULP AND PAPER ASSOCIATION

1790 2633 Eastlake Ave. East
Seattle, Wash. 98102
Tel: (206) 325-3277

AREAS OF INTEREST: Pulp and paper industry of Oregon and Washington, including research, equipment, economics, and legislation; effect of pulp and paper industry operations on air and water in the Pacific Northwest.

HOLDINGS: Books, journals, reports, reprints, reviews, motion pictures, slides, posters, data.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides bibliographic services.

NORTHWESTERN STATE COLLEGE OF LOUISIANA

Film Library

1791 Northwestern State College of Louisiana
Natchitoches, La. 71457
Tel: (318) 357-5213

AREAS OF INTEREST: Films in the physical and biological sciences and related areas, including engineering.

HOLDINGS: 5,000 16mm motion picture films.

PUBLICATIONS: Directory.

INFORMATION SERVICES: Lends films to State agencies and organizations and to all schools and school systems in Louisiana.

NORTHWESTERN UNIVERSITY

Dearborn Observatory Library

1792 Lindheimer Astronomical Research Center
Northwestern University
Evanston, Ill. 60201
Tel: (312) 492-7651

AREAS OF INTEREST: Astronomy, with emphasis on space applications of image conversion methods; photometry; spectroscopy.

HOLDINGS: 12,000 volumes; 90 journal subscriptions; 98 exchange and gift items; 350 contributions from other observatories; 3,300 slides; 500 photos; 300 pamphlets; motion picture films, microfilms, maps.

PUBLICATIONS: *Dearborn Observatory Contributions* (irregular).

INFORMATION SERVICES: Answers inquiries; provides reference and duplication services; makes interlibrary loans; permits onsite reference. Services are primarily for faculty and students, but are also available to bona fide scholars, scientists, and others engaged in serious inquiry and investigation.

Department of Mechanical Engineering and Astronautical Sciences

1793 Northwestern University
Technological Institute
2145 Sheridan Rd.
Evanston, Ill. 60201
Tel: (312) 492-7470

AREAS OF INTEREST: Plasma physics; mechanics; combustion; kinematic synthesis; general gas dynamics; mechanical design; systems analysis.

HOLDINGS: Books, periodicals, reports, maps, charts, slides, photos, motion pictures, abstracts, indexes, preprints, publication lists, reprints, pamphlets, devices.

PUBLICATIONS: Pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

Geology Library

1794 Northwestern University
Locy Hall, Room 101
Evanston, Ill. 60201
Tel: (312) 492-5525

AREAS OF INTEREST: Geology; geophysics; geochemistry; archeology; crystallography; paleontology; oceanography; climatology.

HOLDINGS: 16,215 volumes; 500 periodical and serial titles, including Federal and State Government publications; 2,385 reprints and pamphlets; 2,695 maps.

INFORMATION SERVICES: Answers inquiries; provides reference and duplication services; makes Science Citation Index searches; makes interlibrary loans; permits onsite reference. Services are primarily for faculty and students, but are also available to bona fide scholars, scientists, and others engaged in serious inquiry and investigation.

Map Library

1795 Northwestern University
The University Library
Evanston, Ill. 60201
Tel: (312) 492-7603

AREAS OF INTEREST: Maps of all regions and countries of the world.

HOLDINGS: 114,000 maps and charts; 300 atlases. The Library is a depository for U.S. Coast and Geodetic Survey charts, U.S. Geological Survey topographic maps, and U.S. Army Topographic Command maps.

INFORMATION SERVICES: Answers inquiries; provides reference and duplication (Xerox 720) services; makes interlibrary loans; permits onsite reference. Services are primarily for faculty and students, but are also available to bona fide scholars, scientists, and others engaged in serious inquiry and investigation.

Materials Research Center

1796 Northwestern University
2145 Sheridan Rd.
Evanston, Ill. 60201
Tel: (312) 492-3606

AREAS OF INTEREST: Materials science and metallurgical research; solid state physics; solid state chemistry; high polymers; semiconductors; ceramics; metals and alloys; composites; physical, chemical, and mechanical properties; characterization of structures of solids.

PUBLICATIONS: Research reports, annual technical report.

INFORMATION SERVICES: Answers inquiries; provides research reports on individual projects on request.

Mathematics Library

1797 Northwestern University
Lunt Hall, Room 11
Evanston, Ill. 60201
Tel: (312) 492-7627

AREAS OF INTEREST: Mathematics.

HOLDINGS: 11,447 volumes; 272 periodical titles; 10,050 reprints; card catalog of Armed Forces reports.

PUBLICATIONS: *Northwestern University, Dept. of Mathematics. Publications* (irregular).

INFORMATION SERVICES: Answers inquiries; provides reference and duplication services; makes Science Citation Index searches; makes interlibrary loans; permits onsite reference. Services are primarily for faculty and students, but are also available to bona fide scholars, scientists, and others engaged in serious inquiry and investigation.

Technological Institute Library

1798 Northwestern University
2145 Sheridan Rd.
Evanston, Ill. 60201
Tel: (312) 492-3362

AREAS OF INTEREST: Engineering; physics; chemistry; applied mathematics.

HOLDINGS: 115,000 books and bound periodicals; 1,800 periodical titles; AEC open literature, hard copy or microfiche, 1957 to date; NASA open literature, microfiche, 1969 to date; 149,000 microforms.

PUBLICATIONS: Accessions list.

INFORMATION SERVICES: Answers inquiries; provides reference and duplication services; makes interlibrary loans; permits onsite reference. Services are primarily for faculty and students, but are also available to bona fide scholars, scientists, and others engaged in serious inquiry and investigation.

Transportation Center Library

1799 Northwestern University
1810 Hinman Ave.
Evanston, Ill. 60204
Tel: (312) 492-5273

AREAS OF INTEREST: Transportation, with emphasis on economic, social, and operational aspects (intercity, regional, urban, international, and foreign domestic); traffic engineering and safety; police administration and traffic control.

HOLDINGS: 39,495 books; 26,952 pamphlets; 8,000 periodical volumes; 1,052 periodical subscriptions.

PUBLICATIONS: *Current Literature in Traffic and Transportation* (monthly), listing books, reports, and periodical articles; special bibliographies (2 or 3 a year).

INFORMATION SERVICES: Answers inquiries; provides reference and bibliographic services for fee; provides limited photocopying services for fee; makes referrals; makes direct and interlibrary loans; permits onsite use of collection.

NORTON CO. LIBRARY

1800 1 New Bond St.
Worcester, Mass. 01606
Tel: (617) 798-2511

AREAS OF INTEREST: Abrasives and abrasive products, including polishing and tumbling abrasives; ceramics; refractories; physics; chemistry; metallurgy; mineralogy; electronics; grinding wheels; applied science and technology; synthetic resins; surface finish; electric furnaces and products; pressure-sensitive tapes; electrostatics; wear-resistant products; non-slip floors; gear-cutting machines; lapping machines; pulpstones; electrochemical products.

HOLDINGS: 12,000 books; 170 journal titles; technical reports, data.

INFORMATION SERVICES: Makes interlibrary loans to local colleges and industry; permits onsite use of collection on limited basis.

NORTON RESEARCH CORP.

Technical Information Center

1801 Norton Research Corp.
70 Memorial Dr.
Cambridge, Mass. 02142
Tel: (617) 354-5400 Ext. 216

AREAS OF INTEREST: Chemistry; metallurgy; vacuum and space technology; electronics.

HOLDINGS: 5,000 books; 2,500 journals; 15,000 reports.

PUBLICATIONS: *Library Bulletin* (monthly); *List of Recent Acquisitions* (quarterly).

INFORMATION SERVICES: Makes interlibrary loans; provides photocopying services.

NORWICH BUREAU OF INDUSTRIAL RESEARCH

1802 Norwich University
Northfield, Vt. 05663
Tel: (802) 485-5011 Ext. 46

AREAS OF INTEREST: Engineering; product design; manufacturing processes; industrial management.

INFORMATION SERVICES: Provides advisory and consulting services; makes referrals. Services are available to Vermont industries and businesses.

NUCLEAR DATA PROJECT

see Oak Ridge National Laboratory

NUCLEAR DEFENSE LABORATORY

see Army, Department of the. Army Materiel Command

NUCLEAR DESALINATION INFORMATION CENTER

see Oak Ridge National Laboratory

NUCLEAR ENGINEERING CO., INC.

1803 P.O. Box 594
Walnut Creek, Calif. 94597
Tel: (415) 933-0770

AREAS OF INTEREST: Radioactive waste disposal; decontamination; radiation measurements.

HOLDINGS: 40 radiation detection devices; 2,700 technical reports; 500 data compilations; 700 project records; 500 photos; 250 slides; 1,000 standards and specifications; 200 books; 450 periodicals; 3,000 pamphlets; 150 graphs and tables; soil and water samples, plant specimens, maps and charts, reviews, reprints, display materials, press releases, clippings.

PUBLICATIONS: Pamphlets, standards and specifications.

INFORMATION SERVICES: Answers inquiries; provides consulting services; identifies radioactive waste; makes referrals; permits onsite reference. Services normally are free to customers, engineers, and Federal agencies.

NUCLEAR SAFETY INFORMATION CENTER

see Oak Ridge National Laboratory

NUCLIDE CORP.

Technical Publications

1804 Nuclide Corp.
642 East College Ave.
State College, Pa. 16801
Tel: (814) 238-0541

AREAS OF INTEREST: Mass spectrometry; vacuum systems; cathode luminescence devices.

HOLDINGS: 300 books; 500 periodicals; 1,200 reports; 50 bibliographies; abstracts, indexes, reprints.

PUBLICATIONS: Reports, standards and specifications, newsletter, display materials, graphs, tables, pamphlets, press releases, photos, slides, reprints.

INFORMATION SERVICES: Answers brief inquiries; provides consulting services and custom mass spectral analyses for fee; prepares technical summaries and state-of-the-art studies; makes referrals; translates German articles; permits onsite reference.

NUMERICAL CONTROL SOCIETY

1805 44 Nassau St.
Princeton, N.J. 08540
Tel: (609) 924-4780

AREAS OF INTEREST: Technology dealing with numerical control and numerically controlled machines.

PUBLICATIONS: *NC Scene* (monthly newsletter); annual meeting and technical conference proceedings; membership directory (annual); special reports.

INFORMATION SERVICES: Answers inquiries; provides reference services; makes referrals; sponsors conferences, workshops, and seminars; maintains registry of persons willing to speak on numerical control and related subjects; offers basic numerical control education correspondence course.

OAK RIDGE ASSOCIATED UNIVERSITIES LIBRARY

1806 P.O. Box 117
Oak Ridge, Tenn. 37830
Tel: (615) 483-8611

AREAS OF INTEREST: Nuclear science; basic sciences as related to nuclear science.

HOLDINGS: 23,000 books; 21,000 journals; 106,000 reports.

INFORMATION SERVICES: Permits onsite reference; makes interlibrary loans.

OAK RIDGE GASEOUS DIFFUSION PLANT LIBRARY

1807 Union Carbide Corp., Nuclear Division
P.O. Box P
Oak Ridge, Tenn. 37830
Tel: (615) 483-8611 Ext. 3-3264

AREAS OF INTEREST: Chemistry; physics; engineering; metallurgy; mathematics; statistics; stable isotope separation methods; fluorine chemistry; mass spectroscopy; metallic and nonmetallic materials; corrosion; instrumentation; fluid mechanics; industrial management; computing sciences.

HOLDINGS: 27,500 books; 10,000 bound journals; 66,000 paper copies and 236,000 microfiches of reports; patents, data.

PUBLICATIONS: Reports, bibliography, translations.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite reference by those with need-to-know.

OAK RIDGE NATIONAL LABORATORY

Accelerator Information Center

1808 Oak Ridge National Laboratory
P.O. Box X
Building 6000
Oak Ridge, Tenn. 37830
Tel: (615) 483-8611 Ext. 3-1551

AREAS OF INTEREST: Accelerator technology, including cyclotrons, synchrotrons, and other types of resonance accelerators, and tandem Van de Graaff machines, with emphasis on the design specifications and performance characteristics of existing and projected machines and the associated facilities.

HOLDINGS: Worldwide reference file on accelerator installations and their publications relating to accelerator technology.

PUBLICATIONS: Directories and tabulations of various types of accelerators, usually published in proceedings of accelerator conferences.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services. The Center is operated primarily as a service to other accelerator installations and to accelerator conferences.

Atomic and Molecular Processes Information Center

1809 Oak Ridge National Laboratory
P.O. Box Y
Oak Ridge, Tenn. 37830
Tel: (615) 483-8611 Ext. 3-7558

AREAS OF INTEREST: Heavy particle-heavy particle interactions; particle interactions with electric and magnetic fields; particle penetration into macroscopic matter; energetic particle interactions with surfaces.

HOLDINGS: Books, journals, bibliographies, data compilations.

PUBLICATIONS: Review monographs in the field of atomic and molecular processes.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides information on current research and development projects; provides literature-searching services; permits onsite use of collection. Services are available to Government agencies, research and educational institutions, and industry.

Charged-Particle Cross-Section Information Center

1810 Oak Ridge National Laboratory
P.O. Box X
Oak Ridge, Tenn. 37830
Tel: (615) 483-8611 Ext. 3-6461

AREAS OF INTEREST: Nuclear cross-section data for charged-particle-induced reactions of the type A (a,b)B.

PUBLICATIONS: Compilations of nuclear cross sections for charged-particle-induced reactions in Section A of the journal *Nuclear Data Tables*, published by Academic Press, Inc.

INFORMATION SERVICES: Answers inquiries; provides literature-searching services and scientific and technical data or data compilations; renders technical evaluation of the accuracy, quality, and/or significance of information. Services are available to Government agencies and their contractors, research and educational institutions, and industry.

Information Center for Internal Exposure

1811 Health Physics Division
Oak Ridge National Laboratory
Oak Ridge, Tenn. 37830
Tel: (615) 483-8611 Ext. 3-1165

AREAS OF INTEREST: Estimation of dose received from internally deposited radionuclides; calculation of maximum permissible concentrations of radionuclides in air, water, and food; body-burden calculations; metabolic questions involved in estimating internal exposure.

HOLDINGS: About 5,000 abstracts of reports and some unpublished reports.

INFORMATION SERVICES: Answers inquiries; conducts literature searches; prepares data compilations. Services are primarily for Government agencies, their contractors, and official radiological protection committees, but inquiries from other sources are honored as workload permits.

Isotopes Information Center

1812 Oak Ridge National Laboratory
P.O. Box X
Oak Ridge, Tenn. 37830
Tel: (615) 483-8611 Ext. 3-1742

AREAS OF INTEREST: Radioisotopes (sources, irradiators, targets, enrichment, production); uses of radioisotopes in technology, physical sciences, medicine, agriculture, and other life sciences; uses as energy sources; safety, detection, and determination of radioisotopes.

PUBLICATIONS: *Isotopes and Radiation Technology* (one of the AEC Technical Progress Reviews); bibliographies, state-of-the-art reviews.

INFORMATION SERVICES: Answers inquiries on topics related to the Center's areas of interest and on current research and development projects; provides references and bibliographies on request; renders technical evaluation of the accuracy, quality, and/or significance of information; provides limited technical consulting services.

Nuclear Data Project

1813 Oak Ridge National Laboratory
P.O. Box X
Oak Ridge, Tenn. 37830
Tel: (615) 483-8611 Ext. 3-1612

AREAS OF INTEREST: Data in the field of nuclear structure physics, with special emphasis on nuclear level properties, organized according to nucleus.

PUBLICATIONS: *Nuclear Data, Section B*, Current Sheets (published by Academic Press), containing continuously revised collections of experimental results in nuclear structure physics.

INFORMATION SERVICES: Information is made available through the Project's publications, which are available through purchase.

Nuclear Desalination Information Center

1814 Oak Ridge National Laboratory
P.O. Box Y
Oak Ridge, Tenn. 37830

Tel: (615) 483-8611 Ext. 3-5473

AREAS OF INTEREST: Economics and design of dual-purpose and process-heat reactors; condensing, extraction, and back-pressure turbine generators; seawater distillation plants; siting and safety of desalination plants; economics of byproduct utilization; energy center concept and agro-industrial complex.

PUBLICATIONS: Periodic lists of abstracts of new additions to the information system and reports or surveys on special topics relating to desalting; state-of-the-art reviews.

INFORMATION SERVICES: Answers technical inquiries; makes available to workers in the desalting field computer-prepared searches of stored information selected by key words applicable to the users' needs. Services are available to U.S. Government agencies and their contractors, research and educational institutions, and industry.

Nuclear Safety Information Center

1815 Oak Ridge National Laboratory
P.O. Box Y
Oak Ridge, Tenn. 37830
Tel: (615) 483-8611 Ext. 3-7253

AREAS OF INTEREST: All aspects of nuclear safety, such as general criteria, analysis, and operating systems; accident analysis; environmental surveys; monitoring and radiation exposure of man; siting and containment of facilities; transporting and handling of radioactive materials; reactor transients, kinetics, and stability; nuclear instrumentation, control, and safety systems; effects of thermal modifications on ecological systems; effects of radionuclides and ionizing radiation on ecological systems.

HOLDINGS: Reference file, indexed in depth, of information in the above areas; documents on nuclear safety, such as reactor safety analysis reports.

PUBLICATIONS: The Technical Progress Review *Nuclear Safety* (bimonthly); state-of-the-art reports.

INFORMATION SERVICES: Answers inquiries; provides bibliographic, "current awareness", and technical consulting services; permits onsite use of document collection. Services are available to U.S. Government agencies and their contractors, research and educational institutions, and industry.

Oak Ridge National Laboratory Library

1816 P.O. Box X
Oak Ridge, Tenn. 37831
Tel: (615) 483-8611 Ext. 3-6836

AREAS OF INTEREST: Nuclear science and engineering; chemistry; physical mathematics; metallurgy; biological sciences.

HOLDINGS: 11,500 books; 95,000 journals; 320,000 reports; 20,000 translations.

PUBLICATIONS: Accessions list, index.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite reference by qualified representatives of industrial or educational organizations.

Radiation Shielding Information Center

1817 Oak Ridge National Laboratory
P.O. Box X
Oak Ridge, Tenn. 37830
Tel: (615) 483-8611 Ext. 3-6944

AREAS OF INTEREST: Shielding protection from radiation from reactors, weapons, radioisotopes, accelerators, and space.

HOLDINGS: Digital-computer codes for shielding calculations, data handling, or cross section preparation (available for distribution); shielding literature on microfiche.

PUBLICATIONS: Newsletter (monthly, with accessions list); state-of-the-art reviews, data compilations, indexed bibliographies.

INFORMATION SERVICES: Answers inquiries; provides literature-searching and technical consulting services; operates a selective dissemination-of-information program. Services are available to all scientific and technical personnel.

Research Materials Information Center

1818 Oak Ridge National Laboratory
P.O. Box X
Oak Ridge, Tenn. 37830
Tel: (615) 483-8611 Ext. 3-1287

AREAS OF INTEREST: Physical, optical, magnetic, and electrical properties of high-purity solid-state inorganic research materials and their availability, preparation, and characterization.

HOLDINGS: Up-to-date listings of available and desired materials; open literature and reports on areas listed above.

PUBLICATIONS: Data compilations; special bibliographies (when inquiries indicate the need).

INFORMATION SERVICES: Answers inquiries regarding availability of research-quality specimens; provides literature-searching services; provides references to documents and to current research and development projects; serves as focal point for exchange of information between producers and users of research-quality materials.

THE OCEANIC FOUNDATION

1819 Makapuu Point
Waimanalo, Hawaii 96795
Tel: (808) 259-7951

AREAS OF INTEREST: Marine biology, conservation, ecosystems, and engineering; cetacea (porpoises and related marine mammals); porpoise sonar; marine fauna; animal behavior; fisheries management and technology; deep diving and submergence.

HOLDINGS: 500 specimens; 1,000 books; 100 abstracts and indexes; 10,000 reprints; 200 standards and specifications; 150 photos; 150 slides; magnetic tapes, motion pictures, recordings, technical reports, periodicals, maps, charts, posters and display materials, newsletters, publication lists, bibliographies, pamphlets, press releases, clippings, models of local geology. The Foundation supervises the operation of Sea Life Park, a public oceanarium park.

PUBLICATIONS: Brochure.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and limited bibliographic services; permits onsite use of literature collection by scientists, newspapermen, and organization members.

OCEANIC RESEARCH INSTITUTE

1820 P.O. Box 2369
La Jolla, Calif. 92037

Location:
6811 La Jolla Blvd.
La Jolla, Calif.
Tel: (714) 459-2654

AREAS OF INTEREST: Oceanography.

HOLDINGS: Books, periodicals, reports, journals, Government publications, pamphlets, computer tapes.

PUBLICATIONS: *Oceanic Index* (3 issues a year); *Oceanic Citation Journal* (9 issues a year).

INFORMATION SERVICES: Provides reference, literature-searching, indexing and abstracting, and photocopying services.

OCEANICS, INC.

1821 Technical Industrial Park
Plainview, N.Y. 11803
Tel: (516) 694-6900

AREAS OF INTEREST: Oceanography; underwater testing; floating docks; breakwaters; hydrodynamics; fluid dynamics; aerodynamics; applied mechanics; desalinization; mathematics; simulations; sonar maintenance and modifications.

HOLDINGS: 500 books; 4,000 technical reports; periodicals, abstracts, newsletters, reprints, publication lists, bibliographies, pamphlets, clippings, maps, films, slides, project records, graphs, data.

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; disseminates technical reports, subject to Department of Defense restrictions.

Facilities include a water tunnel experimental test facility and an analog and digital computer facility.

OFFICE OF CIVIL DEFENSE

see Army, Department of the

OFFICE OF COAL RESEARCH

see Interior, Department of the

OFFICE OF EMERGENCY PREPAREDNESS

see Executive Office of the President

OFFICE OF GEOGRAPHY

see Interior, Department of the

OFFICE OF MARINE RESOURCES

see Interior, Department of the

OFFICE OF MINERALS AND SOLID FUELS

see Interior, Department of the

OFFICE OF OIL AND GAS

see Interior, Department of the

OFFICE OF SALINE WATER

see Interior, Department of the

OFFICE OF SCIENCE AND TECHNOLOGY

see Executive Office of the President

OFFICE OF WATER FOR PEACE

see State, Department of

OFFICE OF WATER RESOURCES RESEARCH

see Interior, Department of the

OHIO ACADEMY OF SCIENCE

1822 505 King Ave.
Columbus, Ohio 43201
Tel: (614) 299-9097

AREAS OF INTEREST: Medical sciences; plant sciences; geology; physics; astronomy; geography; chemistry; anthropology; sociology; conservation; training and certification of science teachers; zoology; genetics; mathematical sciences; psychology.

HOLDINGS: The Academy's collections are deposited in the Ohio State University library.

PUBLICATIONS: *The Ohio Journal of Science* (bimonthly, published jointly with Ohio State University); *Ohio Academy of Science News* (2 times during academic year).

INFORMATION SERVICES: Answers inquiries; makes referrals; advises community organizations and schools in establishing science clubs and local science days; maintains free visiting scholars program for secondary schools of Ohio.

OHIO AGRICULTURAL RESEARCH AND DEVELOPMENT CENTER

1823 Wooster, Ohio 44691
Tel: (216) 264-1021

AREAS OF INTEREST: Agricultural production, marketing, utilization, and related agribusiness; environmental quality (family and home); agricultural economics and rural sociology; agricultural engineering; agronomy; animal science; dairy science and technology; entomology; fisheries, wildlife, and outdoor recreation; forestry; home economics; horticulture; plant pathology; poultry science; veterinary science.

HOLDINGS: A 40,000-volume library of journals, abstracts, reviews, dissertations, documents, and books. A serials list is available to libraries in exchange for similar lists.

PUBLICATIONS: *Ohio Report* (bimonthly); research bulletins and circulars; research summaries. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; provides duplication services for fee; permits onsite use of collection.

OHIO DEPARTMENT OF INDUSTRIAL RELATIONS

Division of Mines

1824 Ohio Department of Industrial Relations
220 Parsons Ave.
Columbus, Ohio 43215
Tel: (614) 469-4240

AREAS OF INTEREST: Geological formations; maps of underground and strip mines in Ohio.

HOLDINGS: Books, maps, charts, data.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; permits onsite use of collection.

OHIO DEPARTMENT OF NATURAL RESOURCES

Administrative Services Section

1825 Ohio Department of Natural Resources
1500 Dublin Rd.
Columbus, Ohio 43215
Tel: (614) 469-3288

AREAS OF INTEREST: Natural resources in Ohio.

HOLDINGS: Films, reports, newsletters, reprints, pamphlets, press releases, clippings, maps, charts, display materials, photos, slides, oil well drill-core samples.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; reports results of analyses of oil well drill-core samples; lends films; provides topographical maps for fee.

Division of Geological Survey

1826 Ohio Department of Natural Resources
1207 Grandview Ave.
Columbus, Ohio 43212
Tel: (614) 469-5344

AREAS OF INTEREST: Geology of Ohio; surface and subsurface stratigraphy; structural, geomorphic, and glacial history; engineering geology; areal mapping; geology and limnology of Lake Erie; shore erosion; mineral resources, including clay, shale, oil, gas, limestone, dolomite, sandstone, gypsum, salt, brine, peat, sand, gravel, and coal; mineral reserves, including areas and mode of occurrence; mining regions; acid mine water; X-ray mineralogy; geochemistry.

HOLDINGS: 116,000 oil and gas well logs; 15,000 stratigraphic sections; 1,800 core descriptions; cuttings and cores from 2,300 wells; 6,500 geophysical logs; 950 township well location maps; 400 outcrop, structure, and glacial maps; 1,500 photos; 800 color transparancies; complete aerial photographic coverage of State; complete topographic map coverage of State by 1x2-degree, 7 1/2-minute, and 15-minute quadrangles; open file reports.

PUBLICATIONS: Bulletins, Reports of Investigations, Information Circulars, Educational Leaflets, Reprint Series, maps. A publications list is available.

INFORMATION SERVICES: Answers inquiries; provides advisory and duplication services; makes referrals; permits onsite reference; identifies rocks, minerals, and fossils. Stratigraphic sections, core and well samples, and descriptions are available for study.

Division of Water

1827 Ohio Department of Natural Resources
65 S. Front St.
Columbus, Ohio 43215
Tel: (614) 469-2646

AREAS OF INTEREST: Water supply management and control, water use, hazards and meteorology of floods, ground water, surface water, hydrology, streamflow characteristics, sedimentation in reservoirs, municipal water problems, irrigation, rural water use, water wells, water rights, water law, precipitation, water quality, and water pollution in Ohio.

HOLDINGS: 1,000 books; 25,000 punched cards; 15,000 graphs and tables; 2 motion pictures; 3,000 photos; 2,500 slides; 250,000 well logs; 16,000 compilations on water use and quality; periodicals, maps, charts, technical reports, abstracts, indexes.

PUBLICATIONS: *Bulletins*, which discuss the results of long-term studies; *Ohio Water Plan Inventory Reports*, also long-term studies; *Miscellaneous Reports*; *Technical Reports*; *Information Circulars*; *Conservation Education Materials*, primarily for use in school and service groups; *Ohio Water Commission Reports*; *Flood Profile Charts*; *Urban Inundation Maps*; *Underground Water Resources Maps of Ohio*; *Stream Maps*; *Base Maps of the Watersheds of Ohio*. All publications in print are for sale, and all are described in *Publications and Bibliography of the Ohio Division of Water*, available on request.

INFORMATION SERVICES: Answers inquiries about Ohio water resources; makes referrals; lends motion pictures for group showings; permits onsite use of collection.

OHIO RIVER VALLEY WATER SANITATION COMMISSION

1828 414 Walnut St.
Cincinnati, Ohio 45202
Tel: (513) 421-1151

AREAS OF INTEREST: Water quality management; regulation of waste discharges; investigation of spills, accidental discharges, and fish kills.

HOLDINGS: Water quality data stored on magnetic tape, paper tape, 2315 disk cartridge, microfiche, and IBM cards.

PUBLICATIONS: Eight 16mm films on pollution and pollution control; booklets, reports, annual report. A publications list is available.

INFORMATION SERVICES: Provides data on water quality in the Ohio River Valley (a fee may be charged if computer time is required for data assembly and printout); lends films for group showings.

Facilities include an electronic monitor system for 24-hour surveillance of river quality conditions and an IBM 1130 data processing system.

OHIO STATE UNIVERSITY

Brown Hall Library

1829 Ohio State University
190 West 17th Ave.
Columbus, Ohio 43210
Tel: (614) 293-6406

AREAS OF INTEREST: Architecture; photography; landscape architecture; city and regional planning.

HOLDINGS: 13,000 books, journals, and reports.

INFORMATION SERVICES: Permits onsite reference; makes interlibrary loans.

Charles Cutler Sharp Library of Chemistry

1830 Ohio State University
140 West 18th Ave.
Columbus, Ohio 43210
Tel: (614) 293-1118 or 293-1119

AREAS OF INTEREST: Chemistry, including organic, inorganic, analytical, physical, and theoretical; crystallography; chemical technology; chemical engineering; petroleum; polymers and plastics.

HOLDINGS: 30,000 books, reports, and periodicals.

INFORMATION SERVICES: Makes interlibrary loans; provides photocopying services (there is a charge for reproduced material); permits onsite reference.

Cole Memorial Library of Physics

1831 Ohio State University
174 West 18th Ave.
Columbus, Ohio 43210
Tel: (614) 293-2327

AREAS OF INTEREST: Physics; astronomy; solid state physics; theoretical physics; mathematics; astrophysics; infrared spectroscopy; low temperature physics; nuclear physics.

HOLDINGS: 30,000 books, journals, and reports.

INFORMATION SERVICES: Permits onsite reference; makes interlibrary loans; provides photocopying services for fee.

ElectroScience Laboratory Library

1832 Ohio State University
1320 Kinnear Rd.
Columbus, Ohio 43212
Tel: (614) 293-6191

AREAS OF INTEREST: Electromagnetic field theory; antennas; optical and radio propagation; communications; data processing; computers; controls; electronic systems; radar techniques; radiometry; terrain investigations; quantum electronics; plasmas; nonlinear optics; remote sensing.

HOLDINGS: Reports.

INFORMATION SERVICES: Makes available reports, proceedings, data handbooks, and bibliographies at the discretion of the sponsor.

The Laboratory has microwave, radio, laser, and computer facilities equipped for research and development in the above areas of interest.

Engineering Experiment Station

1833 Ohio State University
2070 Neil Ave.
Columbus, Ohio 43210
Tel: (614) 293-4937

AREAS OF INTEREST: Engineering research, including aeronautical, astronautical, architecture, aviation, ceramic, chemical, civil (building, transportation, water resources), computer and information sciences, electrical (communications and control systems, electronic materials and devices, electrosciences), engineering mechanics, industrial (systems analysis, human factors, operations research), mechanical, metallurgical, mineralogical, nuclear, and welding.

HOLDINGS: Over 50,000 books, 1,000 periodical titles, and 50,000 reports.

PUBLICATIONS: *News in Engineering* (bimonthly); bulletin series (2-4 a year); special reports.

INFORMATION SERVICES: Answers inquiries; provides reference services; provides duplication services for fee; lends materials; permits onsite use of collection. Consulting services are provided by faculty on a fee basis.

Engineering Library

1834 Ohio State University
2024 Neil Ave.
Columbus, Ohio 43210
Tel: (614) 293-2852

AREAS OF INTEREST: Civil, electrical, mechanical, nuclear, and industrial engineering; experimental and applied mechanics; welding; aeronautics and astronautics; communications; illumination; acoustics; circuit analysis; electromagnetic theory; physics; mathematics; computer science; information science.

HOLDINGS: 65,000 books, reports, and journals.

INFORMATION SERVICES: Permits onsite reference; makes interlibrary loans.

Institute for Research in Vision

1835 Ohio State University
1314 Kinnear Rd.
Columbus, Ohio 43212
Tel: (614) 293-6265

AREAS OF INTEREST: Blinding eye diseases; retinal biochemistry; retinal anatomy; retinal electrophysiology; psychophysics; interior lighting; highway and automobile lighting; atmospheric optics; photographic and electronic documentation of the atmosphere; simulators for testing visual performance.

HOLDINGS: Books, journals, reports, data.

PUBLICATIONS: Reports, conference proceedings, standards and specifications for lighting, data handbooks, bibliographies.

INFORMATION SERVICES: Provides consulting services on contract basis; permits onsite reference by researchers.

Institute of Polar Studies

1836 Ohio State University
125 South Oval Dr.
Columbus, Ohio 43210
Tel: (614) 422-6531

The Institute was organized in February 1960 as an outgrowth of a reduction center for data collected during the International Geophysical Year.

AREAS OF INTEREST: Polar regions of the earth, particularly the Antarctic ice cap, the Glacier Bay area of southeast Alaska, and southwest Greenland; glaciology-geophysics; bedrock geology; glacial geology; climatology; lichenology; bacteriology; phycology; soil movement; Eskimo archaeology.

HOLDINGS: A special collection of International Geophysical Year glaciological record sheets for Greenland and Antarctica; a collection of color slides of Greenland, Alaska, and Antarctica; 150 books; 335 journals; 1,000 reports; maps, data files, pamphlets, reprints; Antarctic rock specimens and ice cores; herbarium of Pribilof and Greenland flora; pollen reference collection of living polar algae, microfungi, and lichen fungi; an Antarctic plant fossil collection.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; permits onsite reference. Reports issued by the Institute and a Contribution series are distributed to scientific personnel and exchanged with other libraries.

Instruction and Research Computer Center

1837 Ohio State University
1971 Neil Ave.
Columbus, Ohio 43210
Tel: (614) 293-4843

AREAS OF INTEREST: Mathematics; computer science; data processing; time sharing; batch processing; data communications.

HOLDINGS: Books, reports, standards and specifications, reviews, periodicals, abstracts, indexes, publication lists, bibliographies.

INFORMATION SERVICES: Answers inquiries; makes referrals; lends materials; provides computer services on the IBM 360/75, IBM 360/50, IBM 1130, IBM 7094, and IBM 1620. Special requests for services should be addressed to the Director.

Materials Engineering Library

1838 Ohio State University
2041 North College Ave.
Columbus, Ohio 43210
Tel: (614) 293-6168

AREAS OF INTEREST: Metallurgy; mineralogy; ceramic engineering.

HOLDINGS: 15,000 books, reports, and journals.

INFORMATION SERVICES: Permits onsite reference; makes interlibrary loans.

Mathematics Library

1839 Ohio State University
231 West 18th Ave.
Columbus, Ohio 43210
Tel: (614) 293-2009

AREAS OF INTEREST: Pure and applied mathematics.

HOLDINGS: 20,000 books, journals, and reports; 250 current periodical subscriptions.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite reference.

Orton Memorial Library of Geology

1840 Ohio State University
155 South Oval Dr.

Columbus, Ohio 43210
Tel: (614) 293-2438

AREAS OF INTEREST: Geology; geodetic science; paleontology.

HOLDINGS: 38,000 books, reports, and journals; maps, charts.

INFORMATION SERVICES: Permits onsite reference; makes interlibrary loans.

School of Natural Resources

1841 Ohio State University
124 West 17th Ave.
Columbus, Ohio 43210
Tel: (614) 293-2265

AREAS OF INTEREST: Training, research, and continuing education in general conservation, forestry, fisheries and wildlife management, park administration and outdoor recreation, conservation education, land use, and environmental controls.

HOLDINGS: 10,000 books, bulletins, and pamphlets; special collection on conservation education.

PUBLICATIONS: Bulletins of the Ohio Biological Survey, proceedings, reports.

INFORMATION SERVICES: Provides reference services; permits onsite use of literature collection by representatives of Federal, State, and private agencies, and by graduate students; makes interlibrary loans.

Statistics Laboratory

1842 Ohio State University
231 West 18th St.
Columbus, Ohio 43210
Tel: (614) 293-2866

AREAS OF INTEREST: Statistical analysis and the design of experiments.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

Topaz Memorial Library of Vision

1843 Ohio State University
338 West 10th Ave.
Columbus, Ohio 43210
Tel: (614) 293-2647

AREAS OF INTEREST: Optometry; vision; medicine; ophthalmology; optics; reading psychology; visual psychology.

HOLDINGS: 1,300 books; 1,000 bound journals; 5 vertical file drawers of pamphlets, translations, and bibliographies; reports.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite use of collection.

Transportation Research Center

1844 Ohio State University
2070 Neil Ave.
Columbus, Ohio 43210
Tel: (614) 422-2871

AREAS OF INTEREST: Highway transportation system, including administration and management, capital improvements programming, cost/benefit ratio analysis, highway management, and highway staff development; planning, design, and construction, including planning and zoning, systems analysis, network analysis, urban traffic and transportation, highway construction, aerial photogrammetry, highway location and design, construction systems, economic impact analysis, and demographic studies; operations, including traffic dynamics, traffic control and operation, traffic safety, highway lighting, accident investigation, transport of the injured, physiological-psychological aspects of vision, visibility, and legibility of signs, environmental effects of driving, driver education and licensing, objective measures of driver performance, driving control process, system aids for the driver, vehicle communication drivers, vehicle control systems, automatic vehicle control, vehicle structures and integrity, motor fuels, lubricants and coatings, vehicle simulators, vehicle accessories, nondestructive testing procedures, roadside maintenance, and air and water pollution; materials, including lightweight and synthetic aggregates, bituminous materials, concrete materials, vegetation control, plant materials, planting techniques, soil mechanics, theology and thermorheology, and viscoelasticity; structures, including bridges and culverts, flexible pavements, rigid pavements, roadside structures and/or accessories, watershed models, hydraulic instrumentation, and rural drainage systems; mass transportation systems; transportation interface studies; transportation in underdeveloped areas; aesthetic aspects of transportation system design; high-speed ground transportation; flight vehicles; flight training methods; pilot performance and standards; air traffic control systems and training; cockpit engineering and instrumentation; farm vehicle design and use; construction equipment design and use.

HOLDINGS: Approximately 5,000 books, periodicals, and miscellaneous publications, and 1,000 research reports.

PUBLICATIONS: Research reports and bulletins.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, and duplication services; makes direct and interlibrary loans; permits onsite use of collection. Consulting services are provided by faculty on a fee basis, duplication services are provided at cost, and other services are free.

The Center has research laboratories covering the areas of interest described above.

Water Resources Center

1845 Ohio State University
1791 Neil Ave.
Columbus, Ohio 43210
Tel: (614) 293-6108

AREAS OF INTEREST: Water resources planning; water supply; water pollution control; industrial and municipal waste treatment; biological aspects of sanitary engineering; hydraulics; general and groundwater hydrology; water microbiology; chemical engineering of water systems, including thermodynamics and mass transfer; training programs for water and waste treatment plant operators sponsored by the Ohio Operators Training Committee.

PUBLICATIONS: *Bulletins* describing major investigations; *Reports*, issued on all research projects; *Annual Report* of activities submitted to the Office of Water Resources Research, U.S. Department of the Interior; *Reprints* of articles published in technical journals. Single copies of all publications except *Bulletins* are distributed free on request.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services for fee; provides specialized testing services relating to water quality and biodegradation.

Facilities include a water resources research laboratory oriented toward chemical and biological research, pilot plant facilities for waste water studies, and a field-test mine installation for acid mine drainage studies.

OHIO TECHNICAL AND BUSINESS SERVICES PROGRAM

Referral Service Network Office (Cleveland, Ohio)

1846 Cleveland State University
2323 Prospect Ave.
Cleveland, Ohio 44115
Tel: (216) 771-0250 Ext. 291

AREAS OF INTEREST: Sources of scientific and technological knowledge.

INFORMATION SERVICES: Answers inquiries; provides reference services; makes referrals.

Referral Service Network Office (Columbus, Ohio)

1847 Ohio State University
2400 Olentangy River Rd.
Columbus, Ohio 43210
Tel: (614) 422-1289

AREAS OF INTEREST: Sources of scientific and technological knowledge.

INFORMATION SERVICES: Answers inquiries; provides problem identification services; makes referrals. Services are primarily for area business and industry and are provided free.

OHIO VALLEY IMPROVEMENT ASSOCIATION, INC.

1848 4017 Carew Tower
Cincinnati, Ohio 45202
Tel: (513) 381-1255

The Association prepares formal recommendations for new water resources planning and construction in the Ohio River Basin for the U.S. Bureau of the Budget and the Public Works Appropriations Subcommittees of the U.S. Senate and House of Representatives and for project authorization in that area for the Public Works Committees of both the House and Senate.

AREAS OF INTEREST: Industry, economics, and transport in the Ohio Valley; conservation and development of water resources in the Ohio Valley; flood control; navigation; inland waterways; water resources legislation; domestic and industrial water supply; recreational use of water; water resources economics; locks, dams, and reservoirs.

HOLDINGS: Journals, project records, reports, maps, charts, news clippings.

PUBLICATIONS: Newsletter (irregular, distributed on request); research reports, reprints of speeches, brochures, pamphlets, booklets.

INFORMATION SERVICES: Answers general inquiries concerning water resources development in the Ohio Valley. Technical engineering questions are referred to the Office of the Chief of Engineers, U.S. Department of the Army.

OKLAHOMA AERONAUTICS COMMISSION

1849 Sequoyah Memorial Bldg., Suite 510
Oklahoma City, Okla. 73105

Tel: (405) 521-2377

AREAS OF INTEREST: Aviation, including military, commercial, and general aviation; laws and programs for airports in Oklahoma.

HOLDINGS: 100 project reports; 40 periodicals; aerophoto negatives of Oklahoma airports, aviation library references, proceedings, clippings.

PUBLICATIONS: *Directory of Oklahoma Airports* (annual); *Plastic Flight Sequence* cards (biannual); *The Skywriter* (5-6 issues a year); *Oklahoma Aeronautical Chart*; annual report, brochures, posters.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and consulting services; lends films; provides speakers.

The Commission makes financial grants for airport construction, provides materials for safety and antivandalism at airports, and performs planning surveys of Oklahoma airports to forecast future sites.

OKLAHOMA AGRICULTURAL EXPERIMENT STATION

see Oklahoma State University

OKLAHOMA CENTER OF URBAN AND REGIONAL STUDIES

see University of Oklahoma

OKLAHOMA DEPARTMENT OF HEALTH

Environmental Health Services

1850 Oklahoma Department of Health
3400 North Eastern Ave.
Oklahoma City, Okla. 73105
Tel: (405) 427-6561

AREAS OF INTEREST: Radiological health; industrial health; air and water pollution control; pesticides; vector control; water quality; urban planning; sanitary engineering; entomology; liquid and solid waste disposal; efficiency of sewage treatment plants; certification of waste treatment and water plant operators; safety of domestic water supplies and public bathing places.

HOLDINGS: Books, reports, standards, journals, abstracts, preprints, announcements, bibliographies, pamphlets, project records, slides, films, maps, news releases.

PUBLICATIONS: Reports, newsletters, pamphlets, posters, charts, standards. All are available free on request.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services to municipalities and to waste treatment plants; provides bibliographic reference services; provides laboratory testing of water and sewage related to public health or water pollution.

OKLAHOMA GEOLOGICAL SURVEY

1851 University of Oklahoma
Norman, Okla. 73069
Tel: (405) 325-3031

AREAS OF INTEREST: General geology, hydrogeology, and economic geology of Oklahoma; stratigraphy; geochemistry; geophysics; petroleum geology; mineralogy; sedimentology; sedimentary petrology; igneous petrology; paleontology; palynology.

HOLDINGS: Geology library of 75,000 volumes; Core and Sample library containing 85,000 feet of cores from 1,094 wells and well-cutting samples from 28,000 wells in Oklahoma.

PUBLICATIONS: *Oklahoma Geology Notes* (bimonthly); bulletins, circulars, guidebooks, geologic maps, hydrologic atlases, mineral reports, annual reports, catalogs, directories, documents, educational series publications.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; identifies rocks and minerals; arranges field trips and other programs for elementary and secondary schools.

Facilities include a wet-chemistry laboratory; a 1.5-meter Wadsworth-grating JACO emission spectrograph; two ceramic kilns (up to 2,300 degrees F.); a Zeiss PMQ2 spectrophotometer with flame attachment; geiger counter; binocular and petrographic microscopes with photographic attachments; Zeiss photomicroscope; masonry and lapidary saws; a drafting department capable of scribe drafting; two photographic dark rooms; and seven field vehicles. Facilities available through the School of Geology and Geophysics, University of Oklahoma, include an X-ray laboratory for diffraction, fluorescence, adsorption-edge, powder-photograph, and laue-camera studies; a differential thermal analysis laboratory; a sedimentation laboratory; a thin-section laboratory; and a photographic dark room and cameras.

OKLAHOMA STATE UNIVERSITY

Office of Engineering Research

1852 Oklahoma State University
Engineering North, Room 111A
Stillwater, Okla. 74074
Tel: (405) 372-6211 Ext. 7553

AREAS OF INTEREST: Engineering, including chemical, civil, general, electrical, industrial, mechanical, and aerospace; architecture.

HOLDINGS: Research proposals and reports; contracts, grants, and related data; literature on engineering research and development.

PUBLICATIONS: *Engineering Research Bulletins* (irregular); *Thesis Abstracts* (annual); *Research and Educational Development Proposals*; *Contractual Research Reports*.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite reference; sponsors conferences and short courses.

Oklahoma Agricultural Experiment Station

1853 Oklahoma State University
Stillwater, Okla. 74074
Tel: (405) 372-6211 Ext. 266

AREAS OF INTEREST: General agriculture; agricultural economics; agricultural education; agricultural engineering; agronomy; botany; plant pathology; horticulture; forestry; microbiology; biochemistry; entomology; animal science, dairy science, and poultry science; veterinary medicine.

PUBLICATIONS: Technical reports and bulletins.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

School of Chemical Engineering

1854 Oklahoma State University
Stillwater, Okla. 74074
Tel: (405) 372-6211 Ext. 7565

AREAS OF INTEREST: Chemical engineering, including computers and automatic control; petroleum refining; natural gas processing; distillation and absorption; thermodynamics; heat transfer; nuclear engineering; fluid mechanics; diffusion and mass transport; ultrasonic applications; chemical reaction engineering; polymer processing.

HOLDINGS: The School uses the Oklahoma State University Library of 170,000 books and bound volumes, 1,600 current journals in the physical sciences area, and a depository collection of Atomic Energy Commission reports.

INFORMATION SERVICES: Provides consulting services by arrangement on an individual basis; provides chemical process design computer programs.

The School has laboratory facilities for vapor-liquid equilibria, enthalpy, and PVT measurements at high pressure; Birefringent interferometer for diffusion measurements; a pendant drop apparatus for high pressure surface tension measurements; a capillary viscometer for high pressure viscosity measurements; apparatus for kinetic and catalysis mechanism studies; Fastax camera and Vangard Motion Analyzer for photographic studies; and a computer center equipped with an IBM 360/50 computer.

Water Resources Research Institute

1855 Oklahoma State University
315 Whitehurst Hall
Stillwater, Okla. 74074
Tel: (405) 372-6211 Ext. 271 or 272

AREAS OF INTEREST: Water resources research in Oklahoma and the Southern Great Plains; economic, chemical, and physical aspects of irrigation and agricultural use of water; water conservation; suppression of evaporation in reservoirs; primary productivity, ecology, sources and fate of pollutants, and chemical and thermal characteristics of reservoirs and ponds of the Great Plains; bioengineering aspects of water resources; treatment of water for reuse and for domestic supply systems; hydrology of aquifers; overland flow and spatially-varied flow in irrigation distribution channels.

HOLDINGS: Materials on water resources are kept in the University Library.

PUBLICATIONS: A comprehensive annual report and individual technical research reports on projects conducted within the framework of the Institute. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals to specialists within the University. Material may be borrowed through interlibrary loan.

The University maintains an Aquatic Biology Laboratory, a Reservoir Research Center, and extensive facilities for water research in engineering. It also owns and operates a water treatment plant that provides water for the city of Stillwater. The Agricultural Research Service of the U.S. Department of Agriculture operates an outdoor hydraulic laboratory in cooperation with the University. In addition, the University jointly sponsors (with the U.S.D.I. and the Oklahoma Department of Wildlife Conservation) the Oklahoma Cooperative Fishery Research Unit.

OKLAHOMA WATER RESOURCES BOARD

1856 2241 Northwest 40th St.
Oklahoma City, Okla. 73105
Tel: (405) 521-2366

AREAS OF INTEREST: All aspects of the State's water resources; surface and ground water supply and quality; water pollution; water works design and engineering; water rights records and administration; interstate compacts.

PUBLICATIONS: Bulletin (bimonthly); booklet describing Oklahoma's water resources (revised biennially); *Oklahoma's Water Quality Criteria* (book, 1968); appraisal reports of the State's water and land resources, by region; special reports (irregular).

INFORMATION SERVICES: Answers inquiries; makes referrals.

OPTICAL SOCIETY OF AMERICA

1857 2100 Pennsylvania Ave. NW.
Washington, D.C. 20037
Tel: (202) 293-1420

AREAS OF INTEREST: Optics, including aeronautic and space optics; atmospheric optics; color; information processing, holography, and coherence; lasers; lens design; optical materials; radiometry and photometry; spectroscopy; thin films and interferometry; vision.

HOLDINGS: Journals, translations, state-of-the-art reviews.

PUBLICATIONS: *Journal of the Optical Society of America* (monthly); *Applied Optics* (monthly); *Optics and Spectroscopy* (monthly, English translation of Russian journal); *Soviet Journal of Optical Technology* (English translation of Russian journal).

INFORMATION SERVICES: Answers inquiries; makes referrals.

OREGON AGRICULTURAL EXPERIMENT STATION

see Oregon State University

OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

1858 1069 State Office Bldg.
Portland, Oreg. 97201
Tel: (503) 226-2161 Ext. 488

AREAS OF INTEREST: Geology and mineral resources of Oregon; geologic mapping; mining; metals; petroleum (oil and gas); antimony; mercury; nickel.

HOLDINGS: All publications of the U.S. Geologic Survey and U.S. Bureau of Mines; most publications issued by similar State agencies; numerous theses and private reports; several hundred maps and charts; 2,500 slides; 250,000 feet of drill core samples; a museum of minerals, fossils, and rocks of Oregon.

PUBLICATIONS: *Mining and Petroleum Review* (annual); *Biennial Report* (with list of available publications); *Bibliographies* (every 5 years); commodity reports (mercury, chromite, gold, silver); environmental geology studies.

INFORMATION SERVICES: Answers inquiries; provides literature-searching services; makes referrals; lends some materials; permits onsite reference. The Department's analytical laboratories perform chemical and spectrographic analyses, fire assays for silver, gold, and platinum content, and petrographic (rock) determinations on samples from Oregon. A charge is made for spectrographic analyses.

OREGON ENVIRONMENTAL QUALITY COMMISSION

Department of Environmental Quality

1859 Oregon Environmental Quality Commission
P.O. Box 231
Portland, Oreg. 97207

Location:

1400 Southwest 5th Ave.
Portland, Oreg.
Tel: (503) 226-2161

AREAS OF INTEREST: Air and water pollution control and solid waste disposal; pollution mechanisms and methods of analysis; sewage and industrial waste treatment and disposal, particularly pulp and paper mill wastes; air and water quality and solid waste standards and resource management.

HOLDINGS: Extensive water and air samples; 700 photos; 250 slides; 2 motion pictures; 3,000 standards and specifications; 400 books; 6,500 pamphlets; 300 technical reports; reports on daily, monthly, and quarterly air and water quality surveys; periodicals, reprints, magnetic tapes, maps and charts, graphs and tables, reviews, abstracts, newsletters, bibliography, publication lists, annual reports, press releases, display materials.

PUBLICATIONS: Technical reports, regulations, standards, monthly and annual reports, pamphlets, data compilations.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference to air and water quality data by special arrangement; analyzes air and water samples.

OREGON NATURAL RESOURCES PLANNING COMMITTEE

1860 State Capitol
Salem, Oreg. 97310
Tel: (503) 364-2171 Ext. 1076

AREAS OF INTEREST: Natural resources in general, including fish, game, water, minerals, forests, soils, agriculture, parks, nuclear development, and oceanography.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides factual data on natural resources in Oregon.

OREGON STATE BOARD OF AERONAUTICS

1861 3040 25th St. SE.
Salem, Oreg. 97310
Tel: (503) 378-4880

AREAS OF INTEREST: Development of airports, including hospital heliports; conducting and coordinating all air search and rescue efforts in Oregon; air support for civil emergencies; promotion of aviation safety through safety seminars, lighting of runways, and provision of airport beacons and unicoms for air-ground communication; promotion of aviation education; registration of all aircraft and airmen in Oregon; assistance to municipalities with problems of developing, maintaining, and operating airports, and in airline service cases; representing cities, when requested, in dealings with the Federal Aviation Administration; approval of veteran's flight training under P.L. 90-77.

HOLDINGS: 58 16mm aviation films and 2 filmstrips; a library of aviation education materials; a library of airport technical information; a library of aviation law; 5,400 pilot records; 2,500 aircraft records; aircraft crash location file; aircraft accident file; air search and rescue file; State airport development plan; historical file on aviation law and official actions of the Oregon State Board of Aeronautics.

PUBLICATIONS: *Oregon Laws Relative to Aeronautics*; *Airmen Registered in Oregon* (annual); *Aircraft Registered in Oregon* (annual); *State Aeronautical Chart* (biennial); *Oregon Airport Directory*; *Flying Services in Oregon* (annual).

INFORMATION SERVICES: Answers inquiries; inspects airport sites on request and conducts hearings on the safety of sites; lends films; provides assistance with problems relating to aviation in the State. Most services are provided only to Oregon residents.

Facilities include 44 State-owned airports, Cessna 401A aircraft, and airport maintenance equipment.

OREGON STATE UNIVERSITY

Department of Soils

1862 Oregon State University
Corvallis, Oreg. 97331
Tel: (503) 754-2441

AREAS OF INTEREST: Soil genesis and classification; water usage; soil physics; irrigation; drainage; clay mineralogy; soil fertility; soil biochemistry; soil-pesticide interactions; volcanic ash; plant nutrient uptake; forest soils; nitrogen fixation; soil chemistry.

HOLDINGS: Research instruments, departmental library.

PUBLICATIONS: Reprints, soil survey reports.

INFORMATION SERVICES: Answers inquiries; provides soil testing services for fee.

Engineering Experiment Station

1863 Oregon State University
Corvallis, Oreg. 97331
Tel: (503) 754-3001

AREAS OF INTEREST: Research in various fields of engineering.

HOLDINGS: 1,000 reports.

PUBLICATIONS: Bulletins, circulars, reprints (10 per year).

INFORMATION SERVICES: Answers inquiries within limits of staff availability; provides consulting services on fee basis.

Oceanographic Research Program

1864 Department of Oceanography
Oregon State University
Corvallis, Oreg. 97331
Tel: (503) 754-3504

AREAS OF INTEREST: Scientific study of all aspects of the seas; oceanography.

HOLDINGS: 1,000 maps and charts; 2,150 graphs and tables; 600 photos; 17,000 item library collection; large collection of plant and animal specimens; devices (all standard oceanographic equipment); posters and other display materials, abstracts, indexes, motion pictures, data.

PUBLICATIONS: *Collected Reprints* (annual).

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services for fee; permits onsite reference.

Oregon Agricultural Experiment Station

1865 Oregon State University
Corvallis, Oreg. 97331
Tel: (503) 754-1251

AREAS OF INTEREST: General agriculture; management and utilization of natural resources; fisheries; wildlife; home economics; conservation; soil; water; agricultural commodities; crops (production, processing, marketing); well-being of the citizens of Oregon; basic biological sciences.

PUBLICATIONS: *Oregon's Agricultural Progress* (4 times a year); technical reports, papers, popular articles.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

Pacific Cooperative Water Pollution Laboratory

1866 315 Extension Hall
Oregon State University
Corvallis, Oreg. 97331
Tel: (503) 754-1531

AREAS OF INTEREST: Fresh-water and marine water pollution biology; water quality requirements; physiology and toxicology of fishes and other aquatic organisms; aquatic ecology; limnology; ichthyology; fisheries; industrial wastes; pesticides.

INFORMATION SERVICES: Answers inquiries within the limits of time and personnel; provides limited consulting services; provides reprints of journal articles on research results.

Radiation Center

1867 Oregon State University
Corvallis, Oreg. 97331
Tel: (503) 754-2987 or 754-2344

AREAS OF INTEREST: Chemistry and environmental effects of inorganic fluoride oxidizing agents; biochemical effects of intoxicants, particularly missile propellants; effects of intoxicants upon glucose metabolism in mammals.

PUBLICATIONS: Annual technical reports and journal papers.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

School of Engineering

Department of Chemical Engineering

1868 School of Engineering
Oregon State University
Chemical Engineering 1E1
Corvallis, Oreg. 97331
Tel: (503) 755-0123

AREAS OF INTEREST: Chemical engineering; mathematics; heat transfer; mass transfer; metallurgy; electrochemistry; thermodynamics; extractive metallurgy; statistical mechanics; kinetics; statistical thermodynamics; bioengineering; transfer processes.

HOLDINGS: Technical library.

PUBLICATIONS: Technical reports, pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides limited bibliographic services; provides consulting services by individual staff members on fee basis; provides testing and evaluation when such services are not available from commercial laboratories within reasonable distance.

Department of Civil Engineering

1869 School of Engineering
Oregon State University
Apperson Hall 204
Corvallis, Oreg. 97331
Tel: (503) 754-1934

AREAS OF INTEREST: Civil engineering; sanitary engineering; waste treatment; structural engineering; structural mechanics; structural dynamics; sanitary chemistry; soil mechanics; geodesy; fluid mechanics; engineering economics; highway materials and engineering; ocean engineering.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services by individual staff members on fee basis; provides testing and applied research services on contract basis.

Department of Electrical and Electronics Engineering

1870 School of Engineering
Oregon State University
Dearborn Hall 111
Corvallis, Oreg. 97331
Tel: (503) 754-3285

AREAS OF INTEREST: Electrical, electronic, communications, and system engineering; microwave systems; solid state electronics; integrated circuits; magnetic materials and devices; optics; EM wave propagation; antennas; power systems; high voltage; circuit theory; systems instrumentation; network topology; simulation; computer systems; adaptive and learning control systems; ultrasonics; switching theory and automata.

PUBLICATIONS: Reprints obtained through the Engineering Experiment Station.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services by individual staff members on fee basis.

Department of General Engineering

1871 School of Engineering
Oregon State University
Covell Hall 210
Corvallis, Oreg. 97331
Tel: (503) 754-1645

AREAS OF INTEREST: General engineering; structures; mechanical design; hydrology; materials science; regional planning; environmental science.

HOLDINGS: 800 books.

PUBLICATIONS: Reports, pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services by individual staff members on fee basis.

Department of Mechanical and Nuclear Engineering

1872 School of Engineering
Oregon State University
Rogers Hall 204
Corvallis, Oreg. 97331
Tel: (503) 754-3441

AREAS OF INTEREST: Mechanical and nuclear engineering; air pollution; gas dynamics; air conditioning; materials science; cryogenics; internal combustion engines; computers; machine design; fuels; lubricants; combustion; boilers; stress analysis; applied mechanics; neutron radiography.

PUBLICATIONS: Reports, pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services by individual staff members on fee basis.

Department of Production Technology

1873 School of Engineering
Oregon State University
Production Technology 100
Corvallis, Oreg. 97331
Tel: (503) 754-2095

AREAS OF INTEREST: Metal casting; welding and fabrication, including weldment design, metallurgy, testing and inspection, heat treatment, equipment, alloys, material selection and substitutions, and methods of equipment use; metal working; wood products, including nature and behavior of wood as a material, furniture design and construction, and other product design; materials handling, production planning and control, production methods, supervision, processes, data processing, metrology, systems, scheduling and routing, and specifications for the above; manufacturing, including casting design, fluid flow in molds, mold materials, X-ray inspection, melting equipment, processes and control systems, equipment and facilities, safety environment, alloys, quality control, and storage; metal cutting and forming, including product design, tooling, machine tools, machine tool controls, cutting tool materials, cutting tool geometry, and economics of metal removal; measurements and inspection, tolerances and allowance, surface finishes, and comparative methods of metal forming processes; building construction, including site planning, design and construction, critical path scheduling, component and modular construction, operations and specifications, building cost estimating, and construction materials testing.

HOLDINGS: 2,400 books; 1,200 standards and specifications; 70 reels of 16mm movie film; 1,600 35mm slides; 250 project records and drawings; 23 reels of magnetic tape; 7 card decks for computer program; APT computer program for 5-axis numerical-control tool control; many samples and specimens of materials used in manufacturing and construction, including tools and components of products.

PUBLICATIONS: Annual and biennial service and activities reports; brochures.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services to public, graduate research students, and staff on mechanical technology.

Facilities include metal cutting and forming machine tools and equipment and machinery for metal casting, welding and fabrication, and building construction.

Water Resources Research Institute

1874 Oregon State University
Corvallis, Oreg. 97331
Tel: (503) 754-1023

AREAS OF INTEREST: Water resources; aquatic entomology; aquatic biology; aquatic ecology; water chemistry and physics; ground-water physics; ground-water geology; hydrology; hydraulics; limnology; sanitary engineering; water pollution; watershed management; water law and legislation; weather modification; oceanography; waste treatment and disposal; water reclamation and reuse; water use and control; water economics.

HOLDINGS: Books, journals, theses, dissertations, reports, reprints, newsletters, photos, maps, indexes.

PUBLICATIONS: *Water Research Summary* (biannual); booklet (Fall and Spring terms); seminar papers, technical reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite use of collection.

OREGON WATER RESOURCES BOARD

1875 500 Public Service Bldg.
Salem, Oreg. 97310
Tel: (503) 364-2171 Ext. 1198

AREAS OF INTEREST: All aspects of water use and control; streamflow; water temperature and quality; drainage; irrigation; water storage.

HOLDINGS: Research data, maps, charts, reports.

PUBLICATIONS: *Biennial Report* (available free); *Basin Reports*; *Summaries* (a series covering hydrological stations, geographic names, basin development, recreation areas, and water rights); Board hearings, maps. A publications price list is available.

INFORMATION SERVICES: Answers technical inquiries; makes referrals; provides consulting and bibliographic services; permits onsite use of collection.

ORGANIZATION FOR TROPICAL STUDIES, INC.

North American Office

1876 Organization for Tropical Studies, Inc.
Florida Bldg., Suite 102
5900 73d St.
South Miami, Fla. 33143
Tel: (305) 666-5837

AREAS OF INTEREST: Terrestrial biology; marine biology; geography; geology; atmospheric sciences; agriculture; anthropology; forestry.

HOLDINGS: Lists of tropical workers in the United States and in Latin America and other foreign areas, students who have had OTS courses, university faculty members who have participated in OTS courses, etc.; reports.

PUBLICATIONS: Reports, bulletin, manual.

INFORMATION SERVICES: Answers inquiries; permits onsite use of files by qualified research workers, graduate students, etc.

ORGANIZATION OF AMERICAN STATES

General Secretariat--Pan American Union

Department of Scientific Affairs

1877 Organization of American States
1735 Eye St. NW., Room 1134
Washington, D.C. 20006
Tel: (202) 381-8733

AREAS OF INTEREST: Science and technology in Latin America, including education and research in natural and basic sciences, technological development, human resources, and manpower studies.

HOLDINGS: Books, reports, periodicals, standards and specifications, reviews, bibliographies, pamphlets, publication lists, clippings, data.

PUBLICATIONS: *Ciencia Interamericana* (journal, 5 issues a year, in Spanish); *Scientific Monographs* (10-15 issues a year, in Spanish and Portuguese) on physics, biology, chemistry, and mathematics; reports, proceedings.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, bibliographic, literature-searching, and translating services; permits onsite use of collection. Services are available primarily to members of the Pan American Union.

OUACHITA RIVER VALLEY ASSOCIATION

1878 214 Van Buren Ave. NW.
Camden, Ark. 71701
Tel: (501) 836-9316

AREAS OF INTEREST: River navigation; flood control; hydroelectric power; recreation; conservation; water pollution.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

OUTDOOR POWER EQUIPMENT INSTITUTION, INC.

1879 734 15th St. NW.
Washington, D.C. 20005
Tel: (202) 737-6510

AREAS OF INTEREST: Power lawn mower safety; outdoor power equipment safety.

INFORMATION SERVICES: Answers brief inquiries as time and staff permits; makes referrals; disseminates safety leaflets at cost.

OWENS-CORNING FIBERGLAS CORP.

Research Library

1880 Owens-Corning Fiberglas Corp.
Granville, Ohio 43023
Tel: (614) 582-6010

AREAS OF INTEREST: Glass composition and melting; fibrous glass; reinforced plastics.

PUBLICATIONS: *Monthly Library Journal* (internal use only).

INFORMATION SERVICES: Provides reference services to outsiders on an individual basis.

OWENS-ILLINOIS, INC.

Technical Center Research Library

1881 Owens-Illinois, Inc.
P.O. Box 1035
Toledo, Ohio 43601

Location:
1700 North Westwood Ave.
Toledo, Ohio
Tel: (419) 242-6543 Ext. 33-033

AREAS OF INTEREST: Glass technology; physics; chemical engineering; ceramics; temperature measurement and control; heat transfer; metallurgy; plastics; paper products; geology; optics; life sciences; computer science.

HOLDINGS: 21,000 books; 10,000 reports; 2,000 translations; journals, reprints, laboratory notebooks, miscellaneous Government and State documents, items from university engineering departments.

PUBLICATIONS: *Abstracts of Technical Reports* (bimonthly); *Technical Library Bulletin* (semimonthly); bibliographies.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite reference by request; provides technical and management films for showing at the Technical Center complex.

PACIFIC AEROSPACE LIBRARY

see American Institute of Aeronautics and Astronautics

PACIFIC COOPERATIVE WATER POLLUTION LABORATORY

see Oregon State University

PACIFIC MARITIME ASSOCIATION

1882 635 Sacramento St.
San Francisco, Calif. 94111
Tel: (415) 362-7973

AREAS OF INTEREST: Maritime labor contracts and collective bargaining, including fringe benefit plans and trusts; hours and earnings of longshoremen and seamen; shoreside and off-shore manpower surveys; ILWU-PMA Mechanization Agreement; longshore productivity; safety and accident prevention; training of workforce in skills.

HOLDINGS: Annual reports, data, collective bargaining contract.

PUBLICATIONS: Annual report, benefits booklets, collective bargaining agreements, Pacific Coast Marine Safety Code.

INFORMATION SERVICES: Answers inquiries from outside the Association within the limitations of staff resources and available data; makes referrals; permits onsite use of file material, subject to the limitations of space, time, and need for staff supervision; conducts seminars for special groups.

PACIFIC NORTHWEST BIBLIOGRAPHIC CENTER

see University of Washington

PACIFIC NORTHWEST POLLUTION CONTROL ASSOCIATION

1883 P.O. Box 16217
Portland, Oreg. 97216

AREAS OF INTEREST: Water pollution; treatment and disposal of sewage and industrial wastes; design, construction, operation, and management of waste treatment facilities in Oregon, Washington, Idaho, and British Columbia.

PUBLICATIONS: Newsletter (3 issues a year).

INFORMATION SERVICES: Answers inquiries; makes referrals; holds an annual conference with a technical program.

PACIFIC NORTHWEST RIVER BASINS COMMISSION

1884 P.O. Box 908
Vancouver, Wash. 98660
Tel: (206) 694-2581

AREAS OF INTEREST: Coordinated comprehensive water and related land planning for the Pacific Northwest, including supporting and special studies, such as hydrology, fisheries and wildlife, flood control, navigation, recreation, municipal and industrial water supplies, water quality and pollution control, land measures, watershed protection, meteorology, aquatic plant and insect control, urban and rural related lands, irrigation, and electric power.

HOLDINGS: Basic water resources data and reports.

PUBLICATIONS: Committee reports, river basin planning reports, newsletter.

INFORMATION SERVICES: Answers inquiries; makes referrals.

PACIFIC NORTHWEST WATER LABORATORY

see Interior, Department of the. Federal Water Quality Administration

PACIFIC OCEANOGRAPHIC LABORATORIES

see Commerce, Department of. Environmental Science Services Administration. Research Laboratories

PACIFIC POWER AND LIGHT CO.

Research Library

1885 Pacific Power and Light Co.
920 Southwest 6th Ave.
Portland, Oreg. 97204
Tel: (503) 226-7411

AREAS OF INTEREST: Electrical engineering; electric utilities; geology; industrial development; nuclear engineering; fisheries research; agricultural engineering; business; environment.

HOLDINGS: 9,000 books; 625 journals; 5,500 pamphlets; 6,000 U.S. documents; 2,200 State documents; 6,150 annual reports.

PUBLICATIONS: List of acquisitions.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite reference.

PACIFIC SCIENTIFIC INFORMATION CENTER

1886 P.O. Box 6037
Honolulu, Hawaii 96808

Location:
Bernice P. Bishop Museum
1355 Kalihi St.
Honolulu, Hawaii
Tel: (808) 847-3511

AREAS OF INTEREST: Geography, biogeography, natural history, and social sciences in the oceanic Pacific area (Polynesia, Micronesia, Melanesia), New Guinea, and closely related areas.

HOLDINGS: About 3,000 books; files of 30 journals; 65,000 air photographs; 15,000 maps and charts; reports, bibliographies, gazetteers, and extensive files of indexed data. The Center also has ready access to the extensive library holdings of the Bernice P. Bishop Museum.

PUBLICATIONS: *Pacific Scientific Information* (3 vols.); five directories: *Pacific Anthropologists* (1962, 1964), *Pacific Botanists* (1963; supplement 1969); *Pacific Entomologists* (1966), *Indo-Pacific Invertebrate Zoologists* (1968), and *Indo-Pacific Vertebrate Zoologists* (1970); two series of newsletters: *Man in the Pacific* and *Pacific Entomologists Newsletter*; various bibliographies and other special publications.

INFORMATION SERVICES: Answers inquiries; provides bibliographic and duplication services. Center publications are available by purchase or through exchange.

PACIFIC SOUTHWEST INTER-AGENCY COMMITTEE

1887 c/o Mr. Thomas P. Helseth
State Conservationist
U.S.D.A. Soil Conservation Service
2020 Milvia St.
Berkeley, Calif. 94704
Tel: (415) 841-5121 Ext. 391

This Committee, representing seven Federal agencies and agencies of the States of California, Arizona, Colorado, New Mexico, Utah, Nevada, and Wyoming, coordinates the policies, programs, and activities of these agencies in regard to water and related land research in the Pacific Southwest. A field committee of the Water Resources Council, it covers the Colorado River Basin, the Great Basin, and all of California.

AREAS OF INTEREST: Water and related land resources planning, research, construction, and development projects; hydrology; water quality; sedimentation; water and land recreation; phreatophyte control.

PUBLICATIONS: Reports of technical subcommittees on water management, phreatophytes, recreation, and coordinated planning; minutes of committee and subcommittee meetings.

INFORMATION SERVICES: Answers inquiries; makes referrals to appropriate Federal, State, and other organizations or specialists.

PACIFIC TECHNICAL ANALYSTS, INC.

1888 P.O. Box 9351
Honolulu, Hawaii 96820

Location:
765 Amana St.
Honolulu, Hawaii
Tel: (808) 955-3377

Pacific Technical Analysts, Inc. is a subsidiary of Control Data Corp.

AREAS OF INTEREST: Operations research; behavioral science; research and development of information systems; design and development of computer software, communications systems, and applications.

HOLDINGS: 400 technical reports; 180 books; 600 periodicals; 500 newspapers; 500 reprints.

PUBLICATIONS: Semiannual report.

INFORMATION SERVICES: Answers inquiries; provides consulting services on fee basis; provides military and commercial operations research; provides technical services to engineers; prepares analyses and evaluations; lends materials for short periods; permits onsite use of collection.

PACKARD INSTRUMENT CO.

Computer Program Library

1889 Packard Instrument Co.
2200 Warrenville Rd.
Downers Grove, Ill. 60515
Tel: (312) 969-6000

AREAS OF INTEREST: Computer programs to process data generated by liquid scintillation counters, multichannel and multiparameter analyzers, and gas and liquid chromatography instruments.

HOLDINGS: Reports.

PUBLICATIONS: Documentation for each computer program and an updated catalog; abstracts and indexes.

INFORMATION SERVICES: Answers inquiries; distributes programs and documentation (50 basic programs plus modifications are available).

PAINT RESEARCH INSTITUTE

1890 Dr. Raymond R. Myers, Research Director
Paint Research Institute
c/o Kent State University
Kent, Ohio 44240
Tel: (216) 672-2032

AREAS OF INTEREST: Basic research on properties, application, manufacture, and use of protective and decorative coatings (paints, varnishes, lacquers, adhesives).

HOLDINGS: Technical reports, reprints.

INFORMATION SERVICES: Answers inquiries; makes referrals.

PAN AMERICAN PETROLEUM CORP.

Research Department Library

1891 Pan American Petroleum Corp.
41st and South Yale Sts.
Tulsa, Okla. 74102
Tel: (918) 627-3400

AREAS OF INTEREST: Petroleum exploration and production.

HOLDINGS: 9,000 books; 12,000 documents, including extensive geological collection; 6,000 periodicals; 35,000 patents; maps, charts, data, bibliographies, translations, society preprints.

INFORMATION SERVICES: Answers inquiries; makes referrals; makes interlibrary loans; permits onsite reference by arrangement.

PAN AMERICAN UNION

see Organization of American States

PANAMA CANAL CO.

1892 Addresses for the Headquarters Office and the Washington, D.C., Office follow:

Headquarters:
Information Office
Panama Canal Co./Canal Zone Government
Box M
Balboa Heights, Canal Zone
Tel: Balboa 2-1880

Washington, D.C., Office:
Office of the Secretary
425 13th St. NW.
Washington, D.C. 20004
Tel: (202) 382-6453

The Panama Canal Co., an agency and instrumentality of the U.S., maintains and operates the Panama Canal and related facilities and performs various administrative, fiscal, and other functions for the Canal Zone Government.

AREAS OF INTEREST: Panama Canal operation and related maintenance and business operations; Panama Canal history and geography; public relations; public affairs; press and news facilities; Canal Zone Guide Service tour services and travel facilities; community relations; regional affairs; photography; visual aids.

PUBLICATIONS: *Panama Canal Review* (quarterly); *Spillway* (weekly); the following information pamphlets: *Funnel for World Commerce* (general); *Gateway for World Trade* (marine); *Summit Gardens--The World in 300 Acres* (botanical); *Canal Zone Guide Service* (tour and travel); *Madden Dam--An Integral Part of the Panama Canal* (engineering); *Basic Information on the Panama Canal* (statistical reference).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides advisory and consulting services; provides reference, statistical, historical, and geographical material and data.

PAPER INDUSTRY MANAGEMENT ASSOCIATION

1893 2570 Devon Ave.
Des Plaines, Ill. 60018
Tel: (312) 827-7126

AREAS OF INTEREST: Management development; management techniques; training; pulp; paper; pulping; bleaching; paper stock preparation; web forming; mechanical water removal; paper drying; paper finishing; paper coating; paper converting; stream improvement; waste disposal; papermaking technology; industrial engineering; maintenance; production; marketing.

HOLDINGS: Brochures on various aspects of pulp and papermaking and on career opportunities; journals, abstracts.

PUBLICATIONS: *American Paper Industry* (monthly); *Paper and Pulp Mill Catalog and Engineering Handbook* (annual); *PIMA Directory* (annual).

INFORMATION SERVICES: Answers inquiries; prepares in-depth reviews of selected processes and management functions; organizes professional and training seminars.

PATENT OFFICE

see Commerce, Department of

PECOS RIVER COMMISSION

1894 Box 123
Carlsbad, N. Mex. 88220
Tel: (505) 885-3144

AREAS OF INTEREST: Equitable apportionment of the use of the waters of the Pecos River and the construction of works for salvage of water, more efficient water use, and flood protection; improvement of water quality by the removal of brine inflow and by salvage through the eradication of salt cedar growth.

PUBLICATIONS: *Initial Development Water Salvage and Salinity Alleviation Action Programs, Pecos River Basin, New Mexico and Texas* (1955); *The Pecos River Commission of New Mexico and Texas, A Report of a Decade of Progress, 1950-1960* (1961).

INFORMATION SERVICES: Answers inquiries; makes referrals.

The Commission operates 25 stream-gaging stations.

PENN CENTRAL CO.

Technical Research Department

1895 Penn Central Co.
577 East 152d St.
Cleveland, Ohio 44110
Tel: (216) 851-2346 or 851-2347

AREAS OF INTEREST: Transportation; shock and vibration; nuclear and radioisotope research; fuels and lubricants (chemical and physical analysis); electronics.

HOLDINGS: 2,100 books; 4,500 periodicals; 700 spectrochemical samples; 12,000 photos; 1,200 slides; 2,000 reports; 700 standards; 1,200 booklets; 12,000 clippings; 350 motion pictures; display materials, abstracts, press releases, data.

PUBLICATIONS: Reports, standards and specifications, reviews.

INFORMATION SERVICES: Answers inquiries; permits onsite reference; makes interlibrary loans.

PENNSYLVANIA AERONAUTICS COMMISSION

1896 Harrisburg State Airport
New Cumberland, Pa. 17070
Tel: (717) 234-3024

AREAS OF INTEREST: Aviation; airport construction and engineering; aviation law enforcement; aircraft accident investigation; aviation safety; airport licensing and inspection; aviation education in the schools; airline routes; airport administration.

HOLDINGS: Significant collection of films on aviation safety, accident investigation, airport promotion, etc.

PUBLICATIONS: *Pennsylvania Aeronautical Chart* (annual); *Airport Guide* (annual); *Pennsylvania Laws Relating to Aviation* (annual); *Aviation Rules and Regulations* (annual); *Aircraft Accident and Violation Analysis* (annual); *Aviation Release* (monthly newsletter); special surveys, reports, etc.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; lends films for public showings.

PENNSYLVANIA AGRICULTURAL EXPERIMENT STATION

see Pennsylvania State University

PENNSYLVANIA BUREAU OF STANDARD WEIGHTS AND MEASURES

1897 Highway and Safety Bldg., Room B-130
Harrisburg, Pa. 17120
Tel: (717) 787-6359

AREAS OF INTEREST: Law enforcement in weights and measures, weighing devices, packaging, labeling, and advertising; licensing of public weighmasters and weighmasters of solid fuel; consumer protection.

HOLDINGS: Weighing and measuring devices, State primary standards, slides and other educational materials.

PUBLICATIONS: Consumer information brochures, annual report.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; tests weighing and measuring devices and contents of packaged commodities for weight; conducts training programs for local sealers of weights and measures and for inspectors of the Bureau.

PENNSYLVANIA DEPARTMENT OF FORESTS AND WATERS

1898 P.O. Box 1467
Harrisburg, Pa. 17120
Tel: (717) 787-2315

AREAS OF INTEREST: Statewide, multipurpose water resources development; development of State Water Plan; flood control; flood forecasting; water-oriented recreation; stream channel improvement;

lake and stream aquatic nutrient studies; slope protection using rock riprap, gabions, and fabriform mattresses; hydraulic models of water flow at high velocities; basin studies; hydrography; harbors; multipurpose dams; stream encroachments; shore and beach erosion; navigation; hydropower generation; landscape architecture; planning, programming, development, designing, constructing, operating, and maintaining a Statewide park system; oil and gas and other mineral exploration and development; land reclamation and conservation; mineral appraisals and site evaluation; forestry; forest fires; pesticides for the control of destructive forest insects; herbicides.

HOLDINGS: 200 books; 200 periodical titles; water supply and flood control data; flood and low-flow discharge records; basin study reports; project records; planning and design criteria; operation and maintenance records; statistics; insect specimens.

PUBLICATIONS: *Water Resources Bulletins* containing reports on special studies (available free to Government agencies, libraries, and consultant engineers); instructional bulletins for dams and encroachment permits; descriptive pamphlets, maps, and brochures dealing with water resources facilities, the State park system, recreation sites, mineral studies, and leasing procedures.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides bibliographic and limited consulting services; provides leasing information on departmental land holdings.

The Department maintains a river forecasting network of approximately 350 rain gages and 219 stream-gaging stations in cooperation with the Federal Government.

PENNSYLVANIA DEPARTMENT OF HEALTH

Bureau of Air Pollution Control

1899 Pennsylvania Department of Health
P.O. Box 90
Harrisburg, Pa. 17120
Tel: (717) 787-6547

AREAS OF INTEREST: Air pollution sources and control techniques; air pollution surveillance; air pollution regulations; air sampling techniques and equipment; meteorological data; industrial toxicology.

HOLDINGS: Books, journals, reports, films, photos, maps and charts, data.

PUBLICATIONS: Technical reports, conference proceedings, standards and specifications.

INFORMATION SERVICES: Answers inquiries; distributes literature; provides technical data compilations and consulting services; provides information to aid enforcement or drafting of air pollution ordinances; permits onsite use of collection by qualified persons.

Bureau of Sanitary Engineering

Division of Industrial Wastes

1900 Bureau of Sanitary Engineering
Pennsylvania Department of Health
P.O. Box 90
Harrisburg, Pa. 17120
Tel: (717) 787-4660

AREAS OF INTEREST: Industrial waste treatment; coal silt; organic wastes; toxic substances; pollution; fish kills.

HOLDINGS: Books, periodicals, display materials, slides, newsletters, press releases, data.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides limited consulting services.

Division of Mine Drainage

1901 Bureau of Sanitary Engineering
Pennsylvania Department of Health
P.O. Box 90
Harrisburg, Pa. 17120
Tel: (717) 787-4245

AREAS OF INTEREST: Mine drainage control and its effects on the waters of Pennsylvania; abatement of pollution from active and abandoned mines.

HOLDINGS: Reports.

PUBLICATIONS: *Pennsylvania's Pollution Abatement Program for Abandoned Mines*; reports, standards and specifications.

INFORMATION SERVICES: Answers brief inquiries.

Division of Water Quality

1902 Bureau of Sanitary Engineering
Pennsylvania Department of Health
P.O. Box 90
Harrisburg, Pa. 17120
Tel: (717) 787-4056

AREAS OF INTEREST: Water pollution control; water quality; water analysis; waste disposal; industrial and recreational uses of water; ground water geology.

HOLDINGS: Books, periodicals, abstracts, technical reports, standards, newsletters, bibliographies, pamphlets, reprints, publication lists, press releases, photos, posters, data compilations.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Division of Water Supply and Sewerage

1903 Bureau of Sanitary Engineering
Pennsylvania Department of Health
P.O. Box 90
Harrisburg, Pa. 17120
Tel: (717) 787-3076

AREAS OF INTEREST: Sanitary engineering; public water supplies; sewerage; bathing places.

HOLDINGS: Books, periodicals, reports, abstracts, standards and specifications, newsletters, pamphlets, bibliographies, reprints, publication lists, press releases, clippings, data.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

PENNSYLVANIA DEPARTMENT OF MINES AND MINERAL INDUSTRIES

1904 Towne House Apartments, Room 215
660 Boas St.
Harrisburg, Pa. 17102
Tel: (717) 787-4686

AREAS OF INTEREST: Anthracite and bituminous coal; oil; gas; laws and regulations; accident investigations; statistics; mine drainage abatement; coal refuse pile revegetation; coal refuse pile fire extinguishment; mine fire extinguishment; filling-in (flushing) abandoned deep mines; strip mine reclamation.

HOLDINGS: 3,000 maps and charts; 300 graphs and tables; 250 project records; technical reports, data compilations.

PUBLICATIONS: *Secretary's Report* (monthly); *Mining Laws* (revised annually); annual report, databooks, bibliographies, display materials, news releases.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides bibliographic and consulting services; permits onsite reference by qualified researchers who have a need-to-know and public officials.

PENNSYLVANIA DEPARTMENT OF PROPERTY AND SUPPLIES

Bureau of Engineering and Construction

1905 Pennsylvania Department of Property and Supplies
Harrisburg, Pa. 17125
Tel: (717) 787-6118

AREAS OF INTEREST: Engineering standards and architectural procedures for State buildings; structural, mechanical, and electrical engineering.

HOLDINGS: Building standards manuals and specifications.

INFORMATION SERVICES: Answers brief inquiries; lends building standards manuals to State agencies or any architectural or engineering firms performing design work on State-financed buildings.

PENNSYLVANIA SOCIETY OF PROFESSIONAL ENGINEERS

1906 2121 North 2d St.
Harrisburg, Pa. 17110
Tel: (717) 234-0720

AREAS OF INTEREST: Practice of engineering and surveying in Pennsylvania, and laws and regulations relating thereto.

HOLDINGS: List of registered engineers in Pennsylvania; small collection of books, journals, and reports.

PUBLICATIONS: *Pennsylvania Professional Engineer* (bimonthly); *P/E Reporter* (5 issues a year); yearbook.

INFORMATION SERVICES: Provides reference services; permits onsite reference.

PENNSYLVANIA STATE PLANNING BOARD

1907 Box 191
Harrisburg, Pa. 17120

Location:

Finance Bldg., Room 503
Harrisburg, Pa.
Tel: (717) 787-3086

AREAS OF INTEREST: City, county, metropolitan, regional, and State planning.

HOLDINGS: Data compilation, project records, graphs, technical reports, reviews, books, periodicals, abstracts and indexes, newsletters, reprints, publication lists, bibliographies, pamphlets, looseleaf services related to the Board's planning function. Special collections include Pennsylvania State Planning Board publications from 1935 to the present, Pennsylvania county materials (surveys, zoning plans, studies, etc.), and bibliographies on planning water and river basin studies.

PUBLICATIONS: Maps, technical reports, population studies, economic studies.

INFORMATION SERVICES: Answers inquiries; provides consulting services. Services are made available within the policy framework of the Pennsylvania State Government.

Bureau of Topographic and Geologic Survey

1908 Pennsylvania State Planning Board
Main Capitol Annex
Harrisburg, Pa. 17120
Tel: (717) 787-2169

AREAS OF INTEREST: Geology, ground water, and mineral resources of Pennsylvania; mineral conservation; environmental geology and related land use planning.

HOLDINGS: Records and basic data on projects, and files of water-well completion records; many technical publications on geology and ground water.

PUBLICATIONS: *Bibliography of Pennsylvania Geology*; ground-water resource reports, geologic reports, special bulletins, progress reports, information circulars, and maps. A list of Pennsylvania geological publications is available free on request.

INFORMATION SERVICES: Counsels municipal and State agencies and individuals on ground-water and geologic problems; makes referrals; provides literature references; permits onsite use of collection.

PENNSYLVANIA STATE SOIL AND WATER CONSERVATION COMMISSION

1909 Pennsylvania Department of Agriculture
Bldg., Room 203
2301 North Cameron St.
Harrisburg, Pa. 17120
Tel: (717) 787-5267

AREAS OF INTEREST: Conservation of land resources; erosion control; watershed protection; flood prevention; water resource development; conservation awareness promotion.

HOLDINGS: Administrative reports, resource inventories, maps, press releases, films, slides, exhibits, posters, booklets, pamphlets, brochures, pictures, other display materials.

PUBLICATIONS: *Teamwork* (monthly, for personnel of the soil and water conservation districts and associated agencies and individuals); brochures, booklets, interim soil surveys, special soil and/or water use reports.

INFORMATION SERVICES: Provides consulting services; provides soil and water conservation district planning and advisory services; provides speakers for meetings; makes onsite investigations of problem areas; cooperates in research projects.

PENNSYLVANIA STATE UNIVERSITY

Automotive Safety Research Program

1910 Pennsylvania State University
207 Mechanical Engineering Bldg.
University Park, Pa. 16802
Tel: (814) 865-1891

AREAS OF INTEREST: Tire-pavement friction, braking systems, and exhaust emissions of motor vehicles; diesel engine cold starting.

PUBLICATIONS: Technical reports. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Berks Center Library

1911 Pennsylvania State University
108 North 8th Ave.
Wyomissing, Pa. 19610
Tel: (215) 372-4112

AREAS OF INTEREST: Mathematics; electronics; physics; chemistry; electrical engineering; mechanical engineering; chemical engineering.

HOLDINGS: 11,000 books; 325 periodicals; 398 reels of microfilm; 358 phonodiscs.

INFORMATION SERVICES: Answers inquiries; provides reference services; makes interlibrary loans; permits onsite reference.

Earth and Mineral Sciences Experiment Station

1912 Pennsylvania State University
118 Mineral Science Bldg.
University Park, Pa. 16802
Tel: (814) 865-7659

AREAS OF INTEREST: The materials sciences of ceramic science, metallurgy, fuel science, and solid state science; geochemistry, mineralogy, and petrology; physical and social geography; geology and geophysics; meteorology and oceanography; mineral economics; mineral preparation engineering; mining; mineral engineering management; petroleum and natural gas engineering; analytical and structure studies consisting of wet chemical rock analysis, X-ray diffraction analysis, emission and absorption spectroscopy, electron diffraction and microscopy, electron microprobe analysis, fluorescent X-ray spectroscopy, and neutron activation analysis.

HOLDINGS: 12,000 rock samples; 300 oil-well drill cores; 2,000 maps and charts; 500 reports; 35 books; 120 reviews; 140 bibliographies; 37 publication lists; 150 pamphlets; clippings.

PUBLICATIONS: Books, reviews, reports. A publications list is available.

INFORMATION SERVICES: Answers brief inquiries; provides consulting services for fee; permits onsite reference.

Industrial Reference Division

1913 Pennsylvania State University
316 Willard Bldg.
University Park, Pa. 16802
Tel: (814) 865-9519

AREAS OF INTEREST: All disciplines of engineering, business administration, and science within the scope of the University's capabilities.

PUBLICATIONS: *Directory of Technical Services for Industry.*

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

Institute for Research on Land and Water Resources

Water Resources Center

1914 Pennsylvania State University
University Park, Pa. 16802
Tel: (814) 865-8355

AREAS OF INTEREST: Water characteristics and control; sewage problems; industrial wastes, including acid wastes and coal mine drainage; hydrological systems; water resources management; water supply and demand; droughts; evapotranspiration; economic and sociological aspects of water resources; urban hydrology; watershed management; use of water of impaired quality; water conservation; aquatic ecology, biology, and microbiology.

PUBLICATIONS: Reports, reprints.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reprints on request.

Nuclear Reactor Facility

1915 Pennsylvania State University
University Park, Pa. 16802
Tel: (814) 865-6351

AREAS OF INTEREST: Nuclear engineering, including graduate and undergraduate training; industrial power reactor training; reactor supervisor training; foreign traineeships in reactor operations; digital and analog instrumentation; heat transfer and fluid flow in reactor design; solid state technology; radiation effects on materials; radiation dosimetry; wave propagation in plasmas; plasma kinetic theory; digital reactor control; decay schemes studies; radionuclear techniques (example: activation analysis); transport theory; reactor analysis; transient reactor kinetics; nuclear reactor materials; radioisotope technology; thermal hydraulic analysis; nuclear safety analysis; nuclear power system design; reactor physics.

HOLDINGS: 650 books; 450 reports; 580 periodicals; 200 punched cards; 26 project records; 160 slides; 250 photos; microcards. The University library is an AEC depository.

PUBLICATIONS: Annual report; department brochure; training and facilities availability report.

INFORMATION SERVICES: Answers inquiries; provides consulting and identification (radiation exposure) services; permits onsite reference.

Facilities include a one-megawatt research reactor with pulsing and square wave capability; two 100-curie capacity "hot cells"; pneumatic transfer system; cobalt-60 facility; radionuclear applications laboratory; subcritical reactor; health physics laboratory; and electronic and machine shops. The Facility also has access to IBM 1401, 14[illegible] and 360/67 computers and a Reeves 150 amplifier analog computer.

Pennsylvania Agricultural Experiment Station

1916 Pennsylvania State University
106 Armsby Bldg.
University Park, Pa. 16801
Tel: (717) 865-5419

AREAS OF INTEREST: General agriculture; biochemistry; agricultural economics; rural sociology; agricultural education; agricultural engineering; agronomy; animal science and nutrition; microbiology; botany; plant pathology; dairy science; forestry; horticulture; poultry science; veterinary science; wildlife; zoology; entomology; land use.

HOLDINGS: 80,000 books; journals, technical reports.

PUBLICATIONS: *Science in Agriculture* (quarterly); technical reports, conference proceedings, bulletins.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite use of literature collection.

Branch Offices: Agricultural Research Center, Rock Springs, Pa.; Southwestern Field Research Laboratory, Rector, Pa.; Fruit Research Laboratory, Arendtsville, Pa.; Southeastern Field Research Laboratory, Landisville, Pa.; Erie County Field Research Laboratory, North East, Pa.

Pennsylvania Transportation and Traffic Safety Center

1917 Pennsylvania State University
215 Shields Bldg.
University Park, Pa. 16802
Tel: (814) 865-9539

AREAS OF INTEREST: Engineering, economic, and psychological aspects of transportation and traffic safety.

HOLDINGS: 500 books; 25 periodical titles; 500 reports. The Center also has access to the collections of the University Library.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Information is made available through the Pennsylvania Technical Assistance Program (PENNTAP). In conjunction with PENNTAP, the Center provides a limited consultation and counseling service for local traffic and governmental agencies.

Small Industries Research

1918 Pennsylvania State University
316 Willard Bldg.
University Park, Pa. 16802
Tel: (814) 865-9519

AREAS OF INTEREST: Engineering and scientific research and development for small industries (projects are initiated through requests from small companies).

PUBLICATIONS: Research reports.

INFORMATION SERVICES: Answers inquiries. Reports on research results are made available to all interested companies.

Waste Water Renovation and Conservation Research Project

1919 Institute for Science and Engineering
Pennsylvania State University
University Park, Pa. 16802
Tel: (814) 865-5419

AREAS OF INTEREST: Water renovation and conservation by disposal of municipal sewage effluent on agricultural and forest lands; ecological changes in plants and animals and influence on crops in treated areas; reuse of water by ground-water recharge; monitoring system for water quality sampling; hydrology and pedology of land areas used for spray disposal of liquid wastes; design, development, and testing of sprinklers and irrigation systems for waste disposal.

HOLDINGS: Data.

PUBLICATIONS: *Reports* (published by the University, available on request from the Project); *The Living Filter* (motion picture);

INFORMATION SERVICES: Answers inquiries; makes referrals.

PENNSYLVANIA TECHNICAL ASSISTANCE PROGRAM (PENNTAP)

1920 501 J. Orvis Keller Bldg.
University Park, Pa. 16802
Tel: (814) 865-0427

AREAS OF INTEREST: Engineering; physical and natural sciences; materials science; computer technology; problems of Pennsylvania business and industry relating to design, processing, production, and packaging.

INFORMATION SERVICES: Disseminates information to any business or industry in Pennsylvania. Services are especially designed to meet the needs of smaller and medium-sized businesses and industries. Modest fees are charged for some services. PENNTAP services are provided through the following projects:

Audio Tape Library

1921 PENNTAP Audio Tape Library
201 Wagner Bldg.
University Park, Pa. 16802
Tel: (814) 865-9531

Under this project, an Audio Tape Library on science and technology that would be of benefit to business and industry in Pennsylvania is maintained by the University's Division of Broadcasting. Selected conferences, seminars, workshops, soundtracks of videotapes, and interviews with leading scientists and engineers are tape recorded and master tapes are permanently filed in the Audio Tape Library. To date, more than 120 tapes on such topics as air pollution, biomaterials, composite materials, computers, metalworking and joining of metals, mining ventilation, mineral sciences, textile technology, and water pollution are available to business and industry. A complete catalog of tapes is available on request.

Information Center for Metal Plating and Coating and Information Center for Metal Powders

1922 PENNTAP Information Center
Franklin Institute Research Laboratories
Philadelphia, Pa. 19103
Tel: (215) 448-1227

The Franklin Institute Research Laboratories operate information centers for two specialized industries in Pennsylvania: (1) those engaged in plating, coating, and engraving metal products; and (2) those using metal powders for the manufacture of end products or components. Knowledge gained from such sources as patents, Government-sponsored research, and foreign literature is interpreted as to its potential applications to development and production and disseminated to these industries. The Centers supply technical information only; they do not provide experimental development assistance.

Library Information System

1923 Pennsylvania State University
302 Pattee Library
University Park, Pa. 16802
Tel: (814) 865-9242

Services of the Library Information System are available to all industry in Pennsylvania. Companies may send specific technical questions to the librarian of the Pennsylvania State University Commonwealth Campus nearest the inquirer, or directly to the Library Information System at University Park if the company's area is not served by a Commonwealth campus. A search of the technical literature is made by library specialists in the appropriate subject area. Copies of the pertinent literature are then sent to the industrial inquirer. If the inquiry is outside the realm of the published literature, the inquirer is referred to other sources.

Materials Research Laboratory

1924 Pennsylvania State University
1-112 Research Bldg.
University Park, Pa. 16802
Tel: (814) 865-3421

The Materials Research Laboratory, which coordinates PENNTAP's materials science and engineering program, makes referrals to on-going programs in materials science and engineering and conducts seminars, workshops, and short courses in materials technology. The Laboratory's areas of interest include: materials science and engineering; X-ray diffraction data on inorganic materials and computer programs for indexing the data; X-ray wave length tables; instrumental analysis of solids; elastic, electrical, and magnetic properties of solids, especially ionic high-temperature materials; and elemental and isotopic composition of various biological tissues.

PENNSYLVANIA TRANSPORTATION AND TRAFFIC SAFETY CENTER

see Pennsylvania State University

PENNWALT CORP.

Technological Center Library

1925 Pennwalt Corp.
900 First Ave.
King of Prussia, Pa. 19406
Tel: (215) 265-3200

AREAS OF INTEREST: Analytical, inorganic, organic, and physical chemistry; chemical engineering; chemical product applications in metal processing, laundrying, dry cleaning, agriculture, textiles, plastics, rubber, and other specialities.

HOLDINGS: 4,200 books; 4,000 journals; reports, patents, films, photos, Government publications, chemical manufacturers' literature.

INFORMATION SERVICES: Provides reference and duplication services; permits onsite reference by research workers of industry and Government and by university faculty.

PERKIN-ELMER CORP. CENTRAL LIBRARY

1926 Main Ave. Mail Station 249
Norwalk, Conn. 06852
Tel: (203) 762-4798

AREAS OF INTEREST: Optics; lasers; holography; chemical and biomedical instrumentation.

HOLDINGS: 15,000 books; 500 periodical titles; 25,000 reports.

INFORMATION SERVICES: Provides limited reference services to ASIS and SLA members; provides limited duplication services; makes interlibrary loans; permits onsite use of collection, subject to security clearance.

PERKINS OBSERVATORY LIBRARY

1927 P.O. Box 449
Delaware, Ohio 43015
Tel: (416) 363-1257

AREAS OF INTEREST: Astronomy; astrophysics.

HOLDINGS: 7,500 books and bound periodicals; maps, charts, reprints.

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans through the Ohio State University Library; permits onsite reference by qualified persons.

PERLITE INSTITUTE, INC.

1928 45 West 45th St.
New York, N.Y. 10036
Tel: (212) 265-2145

AREAS OF INTEREST: Properties and uses of perlite, including its use as an insulating material when used as an aggregate to produce light weight, insulating concrete and plaster, and as loose fill insulation; physical properties of perlite-portland cement and perlite plaster mixes; fire resistance and sound ratings of perlite plaster and concrete construction; properties of perlite for its use as an insulator in cryogenics; studies and experimentation in perlite's use as a horticultural aid, a carrier for fertilizer, and an inert industrial filler.

HOLDINGS: Photos, reports, pamphlets, standards, graphs, tables, bibliographies, display materials, press releases, clippings, reviews, motion pictures, maps, charts, preprints, reprints, posters, data.

PUBLICATIONS: Bulletins to members; reports, data sheets, standards, bibliographies, press releases, films.

INFORMATION SERVICES: Answers brief inquiries; makes referrals, provides consulting, bibliographic, and duplication services.

PERMAG PACIFIC CORP.

1929 5441 West 104th St.
Los Angeles, Calif. 90045
Tel: (213) 776-5656

AREAS OF INTEREST: Design and application of metallic and ceramic permanent magnets; manufacture of special and standard magnets, magnetic assemblies, and shielding devices; design and application of technical ferrites and ceramics, particularly recording head and microwave ferrites and complete recording heads.

HOLDINGS: Samples of most known permanent magnet materials; technical literature and industry standards on magnetic materials.

PUBLICATIONS: Technical literature on magnets, ferrites, and magnetic materials; catalogs of standard magnets, ferrites, and magnetic materials.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; provides testing and identification of permanent magnet materials; provides quotation service; supplies prototypes; permits onsite reference. Services involving less than one hour of the company's time are provided free.

The Corporation has facilities for developing, manufacturing, testing, and calibrating magnets, magnetic devices, and recording heads.

PERMANGANATE INFORMATION SERVICE

see Carus Chemical Co.

PHILADELPHIA ELECTRIC CO. LIBRARY

1930 900 Samson St.
Philadelphia, Pa. 19105
Tel: (215) 922-4700 Ext. 500

AREAS OF INTEREST: All phases of electrical, civil, and mechanical engineering; power generation (steam-hydro-nuclear); power sources; air conditioning; chemistry; computers; control systems; economics; electronic data processing.

HOLDINGS: 4,200 books; 2.900 bound journals; 2,000 pamphlets; 110 drawers of 3 by 5 cards of technical abstracts; maps, charts, data, reports, proceedings.

PUBLICATIONS: Abstract journals, bibliographies.

INFORMATION SERVICES: Makes limited interlibrary loans; permits onsite reference by prior arrangement.

PHILADELPHIA WATER DEPARTMENT

1931 1160 Municipal Services Bldg.
John F. Kennedy Blvd. and 15th St.
Philadelphia, Pa. 19107
Tel: (215) 686-3801

AREAS OF INTEREST: Water supply for the City and suburban Bucks County, including treatment, pumping, storage, distribution, and metering; sanitary and industrial waste water disposal for the City, including collection, pumping, and treatment; waste water reception and treatment for neighboring communities; storm flood control throughout the City, including small creeks and waterways; industrial wastes control; studies of local river quality; design, construction, and management of all City water and waste water facilities; establishment of water and sewer service rates. The Department cooperates with the Delaware River Basin Commission on Delaware Basin water supply problems, including the control of pollution and salt water intrusions in the estuary of the Delaware River, and works with Federal Government agencies on problems of river water quality, volumes, and movements.

PUBLICATIONS: Annual reports, brochures, and pamphlets, all free on request.

INFORMATION SERVICES: Answers inquiries.

The Department maintains a Water Quality Control and Research Laboratory and various plant laboratories; a Research and Development Unit for special studies of water consumption, hydraulic and mathematical modeling, rainfall, and long-range river trends; a rain gage network; a stream gage network; sewer outfall instrument stations for flow and quality gaging; a network of electronic monitoring stations along the Delaware and Schuylkill Rivers for measuring and recording water quality; and a materials testing laboratory.

PHILCO-FORD CORP.

Western Development Laboratories Library

1932 3939 Fabian Way
Palo Alto, Calif. 94303
Tel: (415) 326-4350

AREAS OF INTEREST: Aeronautics; antennas; astronautics; astronomy-astrophysics; calculus; communication; differential equations; dynamics; electric circuits; electromagnetics; electronics; geometry; mathematics analysis; physics; radar and radio; space sciences; information storage and retrieval.

HOLDINGS: 10,000 books; 800 bound journals; 10,000 reports; 40,000 reports in microform; maps, charts, microfiche, microfilm.

PUBLICATIONS: Bibliographies (for internal use).

INFORMATION SERVICES: Makes interlibrary loans; provides reference and literature-searching services.

PHILIP MORRIS, INC. RESEARCH CENTER

1933 P.O. Box 3-D
Richmond, Va. 23206

Location:

4201 Commerce Rd.
Richmond, Va.
Tel: (703) 275-8361

AREAS OF INTEREST: Organic chemistry; physics; packaging; tobacco chemistry and technology and the composition and chemistry of cigarette smoke; applied research and development in subsidiary consumer products such as razor blades and chewing gum.

HOLDINGS: 5,000 books; 750 journals; 550 reels of microfilm; 200 microfiche; 32 vertical file drawers of pamphlets; photostats, reprints, patents, data.

PUBLICATIONS: Reports, indexes, bibliographies.

INFORMATION SERVICES: Answers inquiries; provides reference, duplication, and bibliographic services; makes interlibrary loans; permits onsite use of collection.

Facilities include IBM 870 and 1620 computers, Recordak Lodestar, 3M reader-printer, and Xerox microprinter.

PHILIPS LABORATORIES

Research Library

1934 Philips Laboratories
Scarborough Rd.
Briarcliff Manor, N.Y. 10510
Tel: (914) 762-0300

AREAS OF INTEREST: Solid state physics and devices; 3-D imaging and display devices; cryogenics; photoemission; automatic analytic instrumentation; electronic engineering; chemistry.

HOLDINGS: 10,000 books; 450 journals; 6,000 reports; patent data.

INFORMATION SERVICES: Provides consulting services on fee or contract basis; provides reference services and lends materials for onsite or offsite use to Special Libraries Association members and to Government agencies and their contractors.

PHILLIPS FIBERS CORP.

Technical Information Department

1935 Phillips Fibers Corp.
P.O. Box 66
Greenville, S.C. 29602

Location:

I-85 at Ridge Rd.
Greenville, S.C.
Tel: (803) 242-6600

AREAS OF INTEREST: Manmade fiber; textiles; engineering; physics; chemistry.

HOLDINGS: 525 technical books; 650 technical reports; 60 periodicals; 300 standards and specifications; 800 engineering catalogs; 10 bibliographies; patents.

PUBLICATIONS: Technical publications on manmade fiber technology.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, literature-searching, abstracting, and translating services; lends materials.

PHOTONUCLEAR DATA CENTER

see Commerce, Department of. National Bureau of Standards

PILOTS INTERNATIONAL ASSOCIATION, INC.

1936 P.O. Box 907
Minneapolis, Minn. 55402

Location:

2649 Park Ave.
Minneapolis, Minn.
Tel: (612) 335-3818

AREAS OF INTEREST: Flying safety; pilot proficiency; legislation affecting general aviation.

HOLDINGS: Film library; small collection of periodicals.

PUBLICATIONS: *PIA/Checkout* in *Plane & Pilot* magazine.

INFORMATION SERVICES: Answers inquiries; makes referrals. Services are free to members, Government agencies, and qualified nonprofit research organizations.

PIPE FABRICATION INSTITUTE

1937 1326 Freeport Rd.
Pittsburgh, Pa. 15238
Tel: (412) 782-1624

AREAS OF INTEREST: Pipe fabrication for all pressures and temperatures; engineering; metallurgy.

HOLDINGS: Data.

PUBLICATIONS: Standards and specifications.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

PLASTIC COATING CORP.

Research Center Library

1938 Plastic Coating Corp.
Box 391
Holyoke, Mass. 01040

Location:

Alvord St.
South Hadley, Mass.
Tel: (413) 536-7800

AREAS OF INTEREST: Reprography; photography; microfilm; organic chemistry, particularly diazo compounds; resin and polymer coating on paper and film.

HOLDINGS: 1,500 books; 100 periodical titles.

INFORMATION SERVICES: Answers inquiries; provides reference, literature-searching, abstracting, and duplication services; makes interlibrary loans; permits onsite use of collection with special approval. Services are available to libraries, academic institutions, and customer corporations.

PLASTICS TECHNICAL EVALUATION CENTER

see Army, Department of the. Army Materiel Command

POLAROID CORP.

Technical Information Center

1939 Polaroid Corp.
730 Main St.
Cambridge, Mass. 02139
Tel: (617) 864-6000 Ext. 3363

AREAS OF INTEREST: Photography; chemistry; physics; engineering; business.

HOLDINGS: 16,000 books; bound journals, photos, data; a specialized collection of articles on polarized light.

PUBLICATIONS: *Polaroid Library Bulletin* (approximately semimonthly).

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans.

THE POLYMER CORP. LIBRARY

1940 501 Crescent Ave.
Reading, Pa. 19603
Tel: (215) 929-5858 Ext. 248

AREAS OF INTEREST: Polymer science and technology; plastics processing, fabrication, and coatings.

HOLDINGS: 1,500 books; 200 periodical titles; 500 reports.

PUBLICATIONS: Annual list of periodical holdings (available for exchange with other special libraries).

INFORMATION SERVICES: Answers brief inquiries; provides limited duplication services; makes interlibrary loans.

Facilities include a photocopier suitable for magazines and books..

POLYMER RESEARCH INSTITUTE

see University of Massachusetts

POLYTECHNIC INSTITUTE OF BROOKLYN

Aerospace Research Laboratories

1941 Polytechnic Institute of Brooklyn
Route 110
Farmingdale, N.Y. 11735
Tel: (516) 694-5500

AREAS OF INTEREST: Aerospace engineering; gas dynamics; heat transfer; fluid mechanics; solid mechanics; structural engineering; dynamics; shells (structural); plates (structural).

PUBLICATIONS: Reports, abstracts.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Facilities include hypersonic and supersonic tunnels (Mach number in the inclusive range 1.5 to 12, total temperature in the inclusive range 530 to 3,000 degrees Fahrenheit, total pressure in the inclusive range 15 to 600 psia); a hypersonic shock tunnel (30,000 psi combustion driver, 6 ft.-diameter test section, Mach 8-20); and a rocket motor test stand, with capability for cryogenic handling and high frequency response instrumentation (one 10,000 lb. and one 800 lb. test stand).

Libraries

1942 Polytechnic Institute of Brooklyn
333 Jay St.
Brooklyn, N.Y. 11201
Tel: (212) 643-4446 (Director of Libraries)
(212) 643-8690 or 643-8691 (Reference Dept.)

AREAS OF INTEREST: Aeronautics; astronautics; aerodynamics; aircraft propulsion; aircraft structures; applied mechanics; biochemistry; bioengineering; chemical engineering; chemical physics; chemistry, including analytical, inorganic, organic, physical, and polymer; civil engineering; electrical communication; electrical engineering; electrical control; electrical power; electrophysics; elasticity; electrochemical engineering; history of science and technology; industrial management; mathematics; mathematical physics; mathematical statistics; mechanical design; mechanical engineering; metallurgy; physical metallurgy; metallography; metallurgical engineering; nuclear engineering; operations research and industrial engineering; petroleum engineering; physics; polymeric materials; system science; transportation planning; soil mechanics and foundations; stress analysis; structural engineering; thermal engineering; X-ray crystallography; economics.

HOLDINGS: 150,000 volumes; 3,000 serial titles; 300,000 microforms; 15,000 technical reports; 20,000 documents; special collections in paints and surface coatings (The Mattiello Memorial Library) and in the history of science and technology. The Library is a depository for NASA and U.S. Superintendent of Documents publications.

PUBLICATIONS: *Stacks* (irregular, series of bibliographies and guides to information sources); *Quarterly Input* (list of new acquisitions); list of periodical holdings.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference, bibliographic, and photoduplication services; makes interlibrary loans; permits onsite reference. Certain services to commercial and industrial users are on a fee basis. The Library is a participant in NASA/SCAN information service and Chemical Titles on Tape service.

PORCELAIN ENAMEL INSTITUTE

1943 1900 L St. NW.
Washington, D.C. 20036
Tel: (202) 296-0450

AREAS OF INTEREST: Porcelain enamel as applied to metal substrates, including steel, aluminum, and others; ceramic metal systems; porcelain enamel test methods, standards, and specifications; design and fabrication guides; processing information.

HOLDINGS: 300 books; 1,000 journals; 1,000 reports.

PUBLICATIONS: *Proceedings of the PEI Technical Forum* (annual); *PEI Newsletter* (monthly); *PEI Digest* (bimonthly).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference, bibliographic, and duplication services for fee; permits onsite use of literature collection by qualified visitors.

PORT OF NEW YORK AUTHORITY

1944 111 Eighth Ave.
New York, N.Y. 10011
Tel: (212) 620-7000

AREAS OF INTEREST: Development and operation of transportation and terminal facilities in the New Jersey-New York Port District, including bridges, tunnels, airports, marine terminals, bus and truck terminals, and an interstate rail rapid transit system; improvement and protection of commerce in the bi-State port area, including facilities for international trade such as The World Trade Center, now under construction.

HOLDINGS: 5,500 books; 900 periodical titles; 12,000 documents; indexes, bibliographies, publication lists, standards and specifications, microfilm.

PUBLICATIONS: *A Selected Bibliography of The Port of New York Authority* (biennial); *Port Authority Annual Report; Via Port of New York* (monthly).

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides bibliographic and literature-searching services; makes interlibrary loans; permits onsite use of collections.

PORTLAND CEMENT ASSOCIATION

1945 5420 Old Orchard Rd.
Skokie, Ill. 60076
Tel: (312) 583-6200

AREAS OF INTEREST: Cement and concrete chemistry; concrete projects pertaining to aggregates, products, ready-mix, reinforced, prestressed, precast, and masonry.

HOLDINGS: 2,000 photos and slides; books, journals, reports, reprints, bibliographies, pamphlets, clippings, films, data compilations.

PUBLICATIONS: Looseleaf technical reports, journals, state-of-the-art reviews, design data handbooks, recommended quality control practices, bibliographies.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite use of collection. The Association provides limited free distribution, within the United States and Canada, of its own publications.

POST OFFICE DEPARTMENT

Bureau of Research and Engineering

1946 U.S. Post Office Department
12th St. and Pennsylvania Ave. NW.
Washington, D.C. 20260
Tel: (202) 961-8256

AREAS OF INTEREST: Application of modern technology in research, development, and engineering to the problems of mail handling operations in the postal services; design, testing, and installation of mail processing machines and equipment, including address-coding and reading machines; improvements through industrial engineering studies and analyses and implementation of new systems, techniques, and work methods.

PUBLICATIONS: Reports, brochures.

INFORMATION SERVICES: Responds to technical inquiries; provides research, development, and engineering services to other bureaus and offices of the Department, to industry and university research centers, to other Government agencies, and, in coordination with the Special Assistant for International Postal Affairs, to postal administrations of other countries.

Directives Management Branch

1947 Management Systems Division
Office of Management Services
U.S. Post Office Department
12th St. and Pennsylvania Ave. NW.
Washington, D.C. 20260
Tel: (202) 961-7233 or 961-7665

AREAS OF INTEREST: Mail loss, theft, and damage; laboratory analysis of handwriting, typewriting, inks, poisoned foods, bomb parcels, etc.; mailability of materials determined to be obscene, subversive, or concerned with lotteries, and of threats, firearms, and extortion notes; mechanization of mail distribution and delivery; mail classification, rates, and fees; postal transportation economics, facilities, and schedules; data processing.

PUBLICATIONS: *Postal Bulletin* (weekly); *Postal Manual*; pamphlets.

INFORMATION SERVICES: Refers inquiries to specialists within the Post Office Department.

Post Office Department Library

1948 Post Office Department Bldg., Room 6012
12th St. and Pennsylvania Ave. NW.
Washington, D.C. 20260
Tel: (202) 783-3100 Ext. 7525

AREAS OF INTEREST: Postal history; foreign postal administrations; management; transportation; finance; law; engineering; American history.

HOLDINGS: Approximately 170,000 items, including 880 periodical titles, a special collection of postal history materials, legislative files from the 71st Congress to date, reports, manuscripts, pamphlets, clippings, maps, photos, general and local postal histories, National Postal Employee Organizations periodicals, and Universal Postal Union studies.

INFORMATION SERVICES: Makes interlibrary loans; provides Department-wide reference, research, and bibliographic services; provides postal history reference services to education and research institutions and the general public; permits onsite reference.

Special Assistant to the Postmaster General for Public Information

1949 U.S. Post Office Department
12th St. and Pennsylvania Ave. NW.
Washington, D.C. 20260
Tel: (202) 961-7500

AREAS OF INTEREST: Post Office administration, regulations, laws, policies, operations, facilities, programs, and problems; philately; zip code numbers; postal transportation, finance, research and engineering, personnel, inspection, and law enforcement.

PUBLICATIONS: *Postal Manual*; reports, pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, reference, and document services. Fifteen regional offices perform similar services. Inquiries should be directed to the Assistant to the Director, Regional Office, U.S. Post Office Department, at the following addresses:

Region: Florida, Georgia, North Carolina, South Carolina
John Hancock Bldg.
230 Houston St. NE.
Atlanta, Ga. 30304
Tel: (404) 688-3517

Region: Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island
Post Office and Courthouse Bldg.
Boston, Mass. 02109
Tel: (617) 223-2100

Region: Illinois, Michigan
Main Post Office Bldg.
Chicago, Ill. 60699
Tel: (312) 353-4400

Region: Indiana, Kentucky, Ohio
P.O. Box 1999
Cincinnati, Ohio 45201
Tel: (513) 684-2200

Region: Texas, Louisiana
Main Post Office Bldg.

Box 3
Dallas, Tex. 75221
Tel: (214) 748-5611

Region: Arizona, Colorado, New Mexico, Utah, Wyoming
P.O. Box 1979
Denver, Colo. 80201
Tel: (303) 297-4064

Region: Alabama, Mississippi, Tennessee
Post Office Bldg.
Memphis, Tenn. 38101
Tel: (901) 534-3011

Region: Minnesota, North Dakota, South Dakota, Wisconsin
Federal Bldg., Fort Snelling
Minneapolis, Minn. 55425
Tel: (612) 725-4242

Region: New York, Puerto Rico, Virgin Islands
Main Post Office Bldg.
New York, N.Y. 10098
Tel: (212) 736-7700

Region: Pennsylvania, New Jersey, Delaware
P.O. Box 8601
Philadelphia, Pa. 19103
Tel: (215) 597-9766

Region: Arkansas, Iowa, Missouri
1114 Market St.
St. Louis, Mo. 63199
Tel: (314) 622-8100

Region: California, Hawaii, Nevada, all Pacific possessions
631 Howard St.
San Francisco, Calif. 94106
Tel: (415) 556-4640

Region: Alaska, Idaho, Montana, Oregon, Washington
P.O. Box 9000
Seattle, Wash. 98109
Tel: (206) 583-4626

Region: District of Columbia, Maryland, Virginia, West Virginia
521 12th St. NW.
Washington, D.C. 20269
Tel: (202) 783-5100

Region: Kansas, Nebraska, Oklahoma
Main Post Office Bldg.
Wichita, Kans. 67225
Tel: (316) 267-6311

POWDER ACTUATED TOOL MANUFACTURERS INSTITUTE, INC.

1950 c/o Mr. George P. Byrne, Jr., Executive Director
331 Madison Ave.
New York, N.Y. 10017
Tel: (212) 661-2050

AREAS OF INTEREST: Powder actuated fastening tools, including safety in use, operation, and application.

PUBLICATIONS: Standards and specifications.

INFORMATION SERVICES: Answers inquiries; makes referrals. The Institute serves in an advisory capacity to U.S. Government, State, and municipal bodies, and to labor (construction trades) councils, large industries, and large contractors and constructors.

POWER CRANE AND SHOVEL ASSOCIATION

1951 111 East Wisconsin Ave., Suite 1700
Milwaukee, Wis. 53202
Tel: (414) 272-0943

Power Crane and Shovel Association is a bureau of the Construction Industry Manufacturers Association.

AREAS OF INTEREST: Power cranes, shovels, and excavators.

PUBLICATIONS: Technical bulletins and standards.

INFORMATION SERVICES: Answers inquiries; makes referrals.

POWER INFORMATION CENTER

see University City Science Institute

POWER SAW MANUFACTURERS ASSOCIATION

1952 734 15th St. NW., Room 400
Washington, D.C. 20005
Tel: (202) 737-6510

AREAS OF INTEREST: Gasoline-powered chain saws.

HOLDINGS: Reports, manuals, standards and specifications.

PUBLICATIONS: *Technical Manual of Recommended Practices*; *Safety Manual*.

INFORMATION SERVICES: Makes referrals.

PPG INDUSTRIES, INC.

General Office Library

1953 PPG Industries, Inc.
One Gateway Center
Pittsburgh, Pa. 15222
Tel: (412) 434-3177 or 434-3178

AREAS OF INTEREST: Glass science and technology; chemical, coatings, resins, and plastics industries; business management and law as related to the glass and chemical industries.

HOLDINGS: 10,000 books; 300 journals; 6,000 pamphlets.

INFORMATION SERVICES: Makes interlibrary loans according to code; provides reference services by special arrangement.

Glass Research Center Library

1954 PPG Industries, Inc.
P.O. Box 11472
Pittsburgh, Pa. 15238

Location:

Guys Run Rd.
Harmarville, Pa.
Tel: (412) 362-5100 Ext. 344

AREAS OF INTEREST: Science and technology of glass.

HOLDINGS: 15,000 books; 650 journal titles; 14,000 technical reports; 31,000 patents; 200 standards and specifications; 250 abstracts and indexes; 90 graphs and tables.

PUBLICATIONS: Accessions list (biweekly).

INFORMATION SERVICES: Answers inquiries; provides duplication services; makes referrals; makes interlibrary loans; permits onsite reference by appointment.

PRATT INSTITUTE LIBRARY

Science and Technology Department

1955 Pratt Institute Library
215 Ryerson St.
Brooklyn, N.Y. 11205
Tel: (212) 622-2200 Ext. 276

AREAS OF INTEREST: Most major branches of the physical sciences and engineering, with emphasis on subjects important in the curriculum, including mathematics, chemistry, physics, computer science, building science, food science, and chemical, electrical, mechanical, and industrial engineering. There is some material in the earth sciences, civil engineering, biochemistry, microbiology, industrial design, and packaging. The Circulation Department has books on astronomy, popular science, and the biological sciences.

HOLDINGS: 5,500 books; 4,000 periodical volumes; 240 periodical titles; technical reports from NASA; scientific and technical society journals, proceedings, and transactions (chiefly American); a small number of U.S. Government publications, chiefly from the Bureau of Standards, the Patent Office, and the Atomic Energy Commission.

INFORMATION SERVICES: Makes interlibrary loans; provides reference and duplication services; permits onsite reference.

PRESSURE SENSITIVE TAPE COUNCIL

1956 1201 Waukegan Rd.
Glenview, Ill. 60025
Tel: (312) 724-7700

AREAS OF INTEREST: Pressure sensitive tape and its uses; cellophane, plastic, rubber, paper, and cloth tape products (excluding surgical and medical tapes).

PUBLICATIONS: *Tape Directory* (annual); *Test Methods* (standards); membership directory.

INFORMATION SERVICES: Answers brief inquiries; consults with code and specification writing agencies to establish test methods and standard nomenclature.

PRESTRESSED CONCRETE INSTITUTE

1957 205 West Wacker Dr.
Chicago, Ill. 60606
Tel: (312) 346-4071

AREAS OF INTEREST: Architectural and engineering applications of prestressed concrete for beams, girders, columns, pilings, slabs, wall panels, high-power transmission poles, pipe supports, railroad ties, pavements, cylindrical storage tanks, public, industrial, and office buildings, parking and marine structures, and rail and highway bridges and overpasses.

HOLDINGS: 100 books; 250 periodicals; 25 bibliographies; 2,000 slides; 200 photos; indexes, newsletters, standards and specifications, reprints, clippings.

PUBLICATIONS: *Journal of the Prestressed Concrete Institute* (bimonthly); *PCItems* (monthly); *Fundamentals of Prestressed Concrete Design*; *Schools of Prestressed Concrete*; *Underwriters' Laboratories, Inc. Reports* on fire retardant specification and fire tests; *Bridge Bulletin* (bimonthly); *Prestressed Concrete Multi-Level Parking Structures*; *Prestressed Concrete for Long-Span Bridges*; handbooks, manuals. A publications price list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference.

PRINCETON UNIVERSITY

Accelerator Library

1958 Princeton-Pennsylvania Accelerator
Forrestal Research Center
U.S. Highway No. 1
Princeton, N.J. 08540
Tel: (609) 452-3205

AREAS OF INTEREST: High-energy physics; particle physics; nuclear physics; radiation protection; particle accelerators.

HOLDINGS: 1,374 books; 400 bound periodicals; 15,000 reports.

INFORMATION SERVICES: Provides reference services; provides duplication services for fee; makes interlibrary loans; permits onsite reference.

Aeronautical Engineering Library

1959 Forrestal Research Center
U.S. Highway No. 1
Princeton, N.J. 08540
Tel: (609) 921-8000 Ext. 222

AREAS OF INTEREST: Aeronautical engineering; astronautics; applied mathematics; applied physics; nuclear physics; physical chemistry; electronics; instrumentation; control systems; fluid mechanics.

HOLDINGS: 8,000 books; 4,000 bound periodicals; 35,000 unclassified and 36,000 classified reports; 30,000 unclassified and 10,000 classified microcard reports.

PUBLICATIONS: Accessions list (biweekly).

INFORMATION SERVICES: Provides reference services; provides duplication services for fee; makes interlibrary loans; permits onsite reference.

Astronomy Library

1960 Princeton University Observatory
Peyton Hall
Princeton, N.J. 08540
Tel: (609) 452-3820

AREAS OF INTEREST: Astronomy; astrophysics; space exploration; spectroscopy; plasma physics.

HOLDINGS: 9,000 books and bound periodicals; 1,945 cataloged reprints and pamphlets; a complete series of major astronomical journals.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite reference; provides duplication services for fee.

Chemistry Library

1961 Frick Chemical Laboratory
Princeton University
Princeton, N.J. 08540
Tel: (609) 452-3238

AREAS OF INTEREST: Chemistry, including general, physical, organic, and inorganic; biochemistry.

HOLDINGS: 11,000 books; 13,000 bound periodicals; 1,000 departmental dissertations.

INFORMATION SERVICES: Provides reference services; provides duplication services for fee; makes interlibrary loans; permits onsite reference.

Engineering Library

1962 School of Engineering and Applied Science
Princeton University
Princeton, N.J. 08540
Tel: (609) 452-3200

AREAS OF INTEREST: Civil, electrical, chemical, geological, nuclear, and mechanical engineering; physics; solid state physics; rheology; plastics; computers; engineering economics; electronics; mathematics.

HOLDINGS: 20,000 books; 25,000 bound periodicals; 10,000 cataloged pamphlets; dissertations; Stanford L. Wilson Memorial Collection of fluid dynamics and diffusion studies; 130,000 engineering research reports (microfiche and hard copy).

INFORMATION SERVICES: Provides reference services; provides duplication services for fee; makes interlibrary loans; permits onsite reference.

Geology Library

1963 Guyot Hall
Princeton University
Princeton, N.J. 08540

Tel: (609) 452-3235

AREAS OF INTEREST: Geological sciences; paleontology; geological engineering; geochemistry; oceanography; geophysics.

HOLDINGS: 60,000 bound periodicals and books; 85,000 maps; Sinclair Collection of vertebrate paleontology.

INFORMATION SERVICES: Provides reference services; provides duplication services for fee; makes interlibrary loans through the University library; permits onsite reference.

Mathematics-Physics Library

1964 Fine Hall
Princeton University
Princeton, N.J. 08540
Tel: (609) 452-3187 or 452-3188

AREAS OF INTEREST: Mathematics; physics; statistics; history and philosophy of science.

HOLDINGS: 25,000 books; 25,000 bound periodicals; 5,500 cataloged pamphlets; 40 vertical file drawers of uncataloged pamphlets; 20 vertical file drawers of Princeton theses; 30 vertical file drawers of undergraduate theses; 1,000 reports; 100 films.

INFORMATION SERVICES: Provides reference services; provides duplication services for fee; makes interlibrary loans; permits onsite reference.

Plasma Physics Laboratory Library

1965 Forrestal Research Campus
Princeton University
Box 451
Princeton, N.J. 08540
Tel: (609) 452-3189

AREAS OF INTEREST: Plasma physics; magnetohydrodynamics; controlled fusion.

HOLDINGS: Books, journals, reports, patents.

PUBLICATIONS: Accessions list.

INFORMATION SERVICES: Provides reference services; provides duplication services for fee; makes interlibrary loans.

Research Center for Urban and Environmental Planning

1966 School of Architecture and Urban Planning
Architecture Bldg.
Princeton University
Princeton, N.J. 08540
Tel: (609) 452-3748

AREAS OF INTEREST: General urban and regional development policies and patterns; housing; transportation; education; institutional planning; buildings and building industry; landscape and natural resources; new communities.

PUBLICATIONS: *Planning and Design Workbook for Community Participation* (1969); *Cooperation of the Public and Private Sectors in Housing* (proceedings of Princeton University Conference No. 88, 1968, sponsored by the School of Architecture and Urban Planning and the Research Center).

INFORMATION SERVICES: Answers inquiries; makes referrals.

Urban and Environmental Studies Library

1967 School of Architecture and Urban Planning
Princeton University
Princeton, N.J. 08540
Tel: (609) 452-3256

AREAS OF INTEREST: All aspects of physical planning for man's environment, including such subjects as architecture, building construction, city and regional planning, civil engineering, design, economics, geography, government, landscape architecture, sociology, and transportation.

HOLDINGS: Books, journals, reports.

INFORMATION SERVICES: Answers inquiries as time permits; provides duplication services for fee; makes interlibrary loans (requests should be addressed to the Reference Department, Princeton University Library); permits onsite reference.

Water Resources Committee

1968 Princeton University
Princeton, N.J. 08540
Tel: (609) 452-3000 Ext. 4600

AREAS OF INTEREST: Geohydrology; geochemistry of water; environmental engineering, with emphasis on density-stratified flow; hydraulics; coastline and estuarine hydrodynamics; rivers and harbors; water resources planning and administration.

HOLDINGS: The Committee uses the University's Water Science Library.

PUBLICATIONS: Reprints of articles by Committee members are available on request.

INFORMATION SERVICES: Answers inquiries; makes referrals.

The Committee supervises experimental studies in the Lewis F. Moody Hydrodynamics Laboratory.

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Water Science Library

1969 School of Engineering and Applied Science
Princeton University
Princeton, N.J. 08540
Tel: (609) 452-3237

AREAS OF INTEREST: Design, construction, and administration of waterfront structures, port and harbor facilities, and structures and facilities for the control and use of the flow of streams and rivers; ocean and coastal engineering; local and regional planning for water resources development, use, and protection; hydraulic engineering; breakwaters; soil mechanics; transportation; water storage and distribution; water purification and treatment; water pollution control.

HOLDINGS: 6,000 books; over 150 periodicals currently received; 7,500 reports; specifications and drawings. Important source materials available elsewhere are also cataloged.

PUBLICATIONS: *Quarterly List of Recent Acquisitions*; bibliographies.

INFORMATION SERVICES: Provides reference services as time permits; provides duplication services for fee; makes interlibrary loans; permits onsite reference.

PROFESSIONAL ENGINEERS OF COLORADO

1970 8642 West Colfax Ave., Room 207
Lakewood, Colo. 80215
Tel: (303) 237-5283

AREAS OF INTEREST: Professional engineering relating to aspects of legislation, ethics, engineering registration, and education.

HOLDINGS: Reports.

PUBLICATIONS: *The Professional Engineers of Colorado* (monthly).

INFORMATION SERVICES: Answers inquiries.

PROFESSIONAL PHOTOGRAPHERS OF AMERICA, INC.

1971 1090 Executive Way
Oak Leaf Commons
Des Plaines, Ill. 60018
Tel: (312) 299-8161

AREAS OF INTEREST: Professional photography, including portrait, commercial, and industrial.

HOLDINGS: Journals.

PUBLICATIONS: *The Professional Photographer* (monthly); *Directory of Professional Photography* (annual); proceedings.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

PROVIDENCE PUBLIC LIBRARY

Business-Industry-Science Department

1972 Providence Public Library
150 Empire St.
Providence, R.I. 02903
Tel: (401) 521-7722

AREAS OF INTEREST: Business; industrial technology; pure and applied science; economics.

HOLDINGS: 70,500 books; 13,000 standards and specifications; 400 current periodical titles; 4,500 pamphlets; 4,500 books on printing; abstracts, indexes, U.S. patents from 1872.

PUBLICATIONS: *Memo for Business*.

INFORMATION SERVICES: Answers inquiries; makes referrals; makes interlibrary loans; permits onsite reference; lends materials free to State residents.

PUBLIC HEALTH SERVICE

see Health, Education, and Welfare, Department of

PUBLIC LIBRARY OF CINCINNATI AND HAMILTON COUNTY

Science and Industry Department

1973 Public Library of Cincinnati and Hamilton County
800 Vine St.
Cincinnati, Ohio 45202
Tel: (513) 241-2636 Ext. 36 or 37

AREAS OF INTEREST: Science and technology in general; industrial chemistry; mechanical, electrical, and electronic engineering; machine tools; geology; agriculture; horticulture; trade directories.

HOLDINGS: 110,000 books and monographs; 40,000 bound volumes of journals, including abstract journals, some German and French chemical and engineering journals, and long runs of some of the older important chemical journals; 30,000 bound volumes of patents, including U.S., British (prior to

August 1958), and Canadian patents (the Library is a U.S. Patent depository library); complete file of British Patent Abridgments of Specifications; 53,000 technical reports; 32,500 pamphlets; 1,900 bibliographies; outstanding collection of standards and specifications; 60 review titles; many important reference sets, including some in German. The Library is a full depository library for Government publications.

INFORMATION SERVICES: Answers inquiries; provides duplication services; makes referrals; lends circulating and some reference materials to County residents with library cards; makes interlibrary loans; permits onsite reference.

PUBLIC SERVICE CO. OF COLORADO LIBRARY

1974 550 15th St.
Denver, Colo. 80202
Tel: (303) 297-7084

AREAS OF INTEREST: Electric utility engineering; gas engineering; public utilities; business and commerce.

HOLDINGS: 200 standards and specifications; 1,700 books; 250 journals; pamphlets, bibliographies.

INFORMATION SERVICES: Answers brief inquiries as time permits; provides reference services; permits onsite reference.

PUBLIC SERVICE RESEARCH, INC.

1975 401 Almeria Ave.
Coral Gables, Fla. 33134
Tel: (305) 446-3058

AREAS OF INTEREST: Statistics of water and wastewater utilities.

HOLDINGS: Filings of approximately 40,000 water and wastewater utilities with appropriate regulatory agencies, nationwide; 25,000 reports; 1,000 books; 50 periodical titles.

PUBLICATIONS: *American Directory of Water Utilities* and *American Directory of Wastewater Utilities* (published in alternate years); computer-generated statistical reports on water and wastewater utilities.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, literature-searching, and duplication services. All services are provided on a fee basis.

PUERTO PENASCO MARINE RESEARCH LABORATORY

1976 c/o Coordinator of Marine Sciences
Department of Biological Sciences
University of Arizona
Tucson, Ariz. 85721
Tel: (602) 884-1588

The Laboratory is the property of the Universidad de Sonora and is operated jointly by the universities of Sonora and Arizona as part of their cooperative marine sciences program.

AREAS OF INTEREST: Research directed primarily toward floristic and faunistic studies, ecology, and oceanography of the Northern Gulf of California, with special programs in mariculture, planktonology, behavior, physiology, etc., according to investigators' interests.

HOLDINGS: Specimen reference collections.

PUBLICATIONS: The University of Arizona publishes field guides, research reports, and an annual tide calendar for the Northern Gulf of California.

INFORMATION SERVICES: Answers inquiries; provides some consulting services at cost.

The Laboratory, which is active throughout the year, provides research facilities, limited housing, and logistic support to visiting investigators on a fee basis. Researchers interested in carrying out studies at the Laboratory should make arrangements through the Coordinator of Marine Sciences, Department of Biological Sciences, University of Arizona or through the Jefe de la Estacion de Investigaciones Marinas, Aptdo. Post. 79, Puerto Penasco, Sonora, Mexico.

PUERTO RICO AGRICULTURAL EXPERIMENT STATION

see University of Puerto Rico

PUERTO RICO HEALTH DEPARTMENT

Institute of Health Laboratories

1977 Puerto Rico Health Department
P.O. Box 1730, Hato Rey Station
Hato Rey, Puerto Rico 00919

Location:

Puerto Rico Medical Center
Rio Piedras, Puerto Rico
Tel: (809) 767-2014

AREAS OF INTEREST: Clinical chemistry; clinical microbiology; clinical parasitology; water and milk sanitary control; food sanitary and quality control;

clinical serology and immunology; air and water pollution; drugs; alcohol in blood; meat and poultry sanitary and quality control; clinical hematology.

HOLDINGS: Books, periodicals, reports.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and reference services.

PUERTO RICO PORTS AUTHORITY

1978 G.P.O. Box 2829
San Juan, Puerto Rico 00936

Location:
Isla Grande
San Juan, Puerto Rico
Tel: (809) 723-2260

AREAS OF INTEREST: Transportation facilities; civil engineering; economic studies; harbor law; planning.

HOLDINGS: Reports, maps, charts, data, clippings on agency activities.

PUBLICATIONS: Statistical reports on air and maritime traffic (monthly, calendar, and fiscal year); annual report; journal.

INFORMATION SERVICES: Answers inquiries; provides reference and consulting services.

PUERTO RICO WATER RESOURCES AUTHORITY

1979 GPO Box 4267
San Juan, Puerto Rico 00936
Tel: (809) 723-0528, 724-8360, or 723-4457

AREAS OF INTEREST: Generation, transmission, distribution, and sale of electric power; public lighting; rural electrification; water resources; irrigation.

HOLDINGS: 55,000 aperture cards of engineering drawings; 160 rolls of 35mm film; 2,500 photographs; 5,000 maps and charts; 200 reports; 500 newsletters; 500 reprints; 50 computer programs; 50 soil drilling samples; project records, state-of-the-art reviews, standards and specifications, motion pictures.

PUBLICATIONS: Technical reports, annual report.

INFORMATION SERVICES: Answers inquiries; provides consulting and duplication services; permits onsite use of collection.

PURDUE UNIVERSITY

Agricultural Experiment Station

Agricultural Information Department

1980 Agricultural Administration Bldg.
Purdue University
Lafayette, Ind. 47907
Tel: (317) 749-2417

AREAS OF INTEREST: Agricultural and home economics research, including agricultural engineering, agronomy (crops, soils), animal and poultry sciences, botany and plant pathology, entomology, forestry and conservation, horticulture, veterinary science, biochemistry, and intermediary metabolism research.

HOLDINGS: Reports, data.

PUBLICATIONS: *Research Bulletin* (20 a year); *Research Progress Reports* (50-60 a year); *Agricultural Science Digest* (bimonthly newsletter); journal articles (250-275 a year).

INFORMATION SERVICES: Supplies information to both rural and urban residents of Indiana through publications, stories, photos, tapes, etc. to newspapers, magazines, and radio and television stations.

Computing Center

1981 Purdue University
Lafayette, Ind. 47907
Tel: (317) 749-4232

AREAS OF INTEREST: Computer techniques as related to scientific research, classroom and job scheduling, pattern recognition, information retrieval, documentation, mathematics and statistics, and computer-assisted instruction.

PUBLICATIONS: Technical memoranda, internal reports.

INFORMATION SERVICES: Provides consulting services, mainly for university and Government-sponsored research, but also to others on a limited basis.

Engineering Experiment Station

1982 Purdue University
West Lafayette, Ind. 47907
Tel: (317) 749-2174

AREAS OF INTEREST: Engineering research, including aeronautical and astronautical, agricultural, chemical, civil, electrical, engineering science, industrial, materials science and metallurgical, mechanical, and nuclear.

HOLDINGS: Bulletins, reports, data tables.

PUBLICATIONS: *Research Activities Report* (biennial); *Abstracts of Staff Publications* (biennial); *Road School Proceedings* (annual); *Waste Conference Proceedings* (annual); *Land Surveyors Conference Proceedings* (biennial); *Purdue Backgrounder* (9 issues a year); special conference proceedings; research and extension bulletins.

INFORMATION SERVICES: Provides consulting services, as negotiated; disseminates some publications free.

Jet Propulsion Center

1983 School of Mechanical Engineering
Purdue University
Lafayette, Ind. 47907
Tel: (317) 743-9553

AREAS OF INTEREST: Jet propulsion, gas turbine engines, rocket engines, and the related combustion, aerodynamic, gas-dynamic, and heat-transfer problems.

HOLDINGS: 7,000 reports; 300 journals; 100 books.

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Answers inquiries; permits onsite use of literature collection.

Joint Highway Research Project

1984 Purdue University
Lafayette, Ind. 47907
Tel: (317) 749-2086

AREAS OF INTEREST: Highway engineering, including materials, design, construction, and maintenance; highway and transportation planning; urban planning; highway safety; traffic studies.

HOLDINGS: Books, journals, reports, films, photos, maps, charts, data.

PUBLICATIONS: *Proceedings of the Annual Road School* (annual); research reports, bibliography, reprints.

INFORMATION SERVICES: Answers inquiries; permits onsite use of collection.

Thermophysical Properties Research Center

1985 Purdue University
2595 Yeager Rd.
West Lafayette, Ind. 47906
Tel: (317) 463-1581

AREAS OF INTEREST: Thermophysical properties of matter, including the following properties: thermal conductivity, accomodation coefficient, thermal contact resistance, thermal diffusivity, specific heat, viscosity, emissivity, reflectivity, absorptivity, transmissivity, absorptance to emittance ratio, Prandtl number, diffusion coefficient, thermal linear expansion coefficient, thermal volumetric expansion coefficient, and surface tension. Thermophysical properties are keyed to representative groups such as slags, scales, ceramics, oxides, glasses, mixtures, solutions, metals, nonmetals, minerals, compounds, coatings, cermets, pharmaceuticals, cosmetics, toiletries, petroleum products, animal and vegetable substances, fabrics, yarns, rubbers, plastics, resins, polymers, paper and wood products, and building materials.

HOLDINGS: Over 50,000 unclassified technical papers, of which more than 80 percent are on microfiche, with an annual accession rate of about 8,000.

PUBLICATIONS: *Thermophysical Properties Research Literature Retrieval Guide* (3-book set providing 33,700 references up to July 1966 keyed to properties for 45,000 different materials); *Thermophysical Properties of High Temperature Solid Materials* (6-volume [9 books] reference work with 8,500 pages); *Thermophysical Properties of Matter--TPRC Data Series* (13 volumes, 12,000 pages; also available by individual volume for each of the properties covered); *Masters Theses in the Pure and Applied Sciences* (annual listings).

INFORMATION SERVICES: Answers technical inquiries; makes referrals; provides reference services; makes literature searches through computer-assisted retrieval system; reproduces research documents on microfiche; provides consulting and advisory services to Government agencies and industry. Nominal fees are requested for services rendered, unless requestor is a subscriber for TPRC services. Most of the output for the Center is through major publications marketed by well-known commercial publishers.

The Center has a modern, well-equipped laboratory for varied research programs; equipment to provide accurate temperature measurements, calorimetry, and radiometry; an instrument machine shop, data reduction plotter, and the use of Purdue University Computer Center facilities (IBM 7094 and CDC 6500).

Trace Level Research Institute

1986 Purdue University
Lafayette, Ind. 47907

Tel: (317) 749-2734

AREAS OF INTEREST: Pharmacology, toxicology, and metabolism, with particular emphasis on chemical residues left in living systems by food additives, animal feed additives, drugs, cosmetics, animal growth promoters, plant nutrients and hormones, pesticides, and soil additives.

HOLDINGS: Data.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services and conducts research for fee.

The Institute has analytical, chemical, pharmacological, biochemical, and toxicological facilities, facilities for radioisotope and ionizing radiation detection and measurement, whole body liquid scintillation detectors, and computers.

University Libraries and Audio-Visual Center

1987 Purdue University
Lafayette, Ind. 47907
Tel: (317) 749-2571

AREAS OF INTEREST: Science, engineering, and technology, including aeronautical and engineering sciences; agriculture and agricultural economics; biology; biochemistry; civil, electrical, industrial, mechanical, nuclear, chemical, and metallurgical engineering; chemistry; forestry and horticulture; geosciences; mathematics; computer sciences; pharmacy; physics; psychology; veterinary science and medicine; engineering history; home economics; life sciences.

HOLDINGS: 1 million books; 14,000 journals; reports, patents, newspapers; translations of foreign journal articles and a listing of translations available for purchase from off-campus agencies; a map collection of 75,500 items that includes those deposited by the U.S. Army Map Service, the U.S. Geological Survey, and the Department of Agriculture. The Audio-Visual Center has a collection of 3,300 films and 5,600 tapes for use as teaching aids.

PUBLICATIONS: Accessions list, news journal, indexes, bibliographies, reports.

INFORMATION SERVICES: Makes interlibrary loans. The Audio-Visual Center lends films and tapes to approved persons.

Water Resources Research Center

1988 Life Science Bldg.
Purdue University
Lafayette, Ind. 47907
Tel: (317) 494-4061

AREAS OF INTEREST: Watershed hydrology; urban hydrology; hydraulics; groundwater stream classification; pesticide pollution of reservoirs; infiltration; stream pollution; ecology; systems analysis; water resources manpower; sedimentation; water flow through a porous media; surface retention of water; engineering design; waste water treatment; water supply.

HOLDINGS: Reports, periodicals, newsletters, bulletins, reviews, maps, charts, drill cores, soil samples, industrial waste samples, 50-year rainfall and temperature records on punched cards and magnetic tape, watershed runoff records on punched cards.

PUBLICATIONS: Technical bulletins, reports from research projects.

INFORMATION SERVICES: Answers inquiries; makes referrals; lends master's and doctoral theses.

PURITAN-BENNETT CORP.

1989 Oak at 13th St.
Kansas City, Mo. 64106
Tel: (816) 421-2122

AREAS OF INTEREST: Respiration in man; manual resuscitators, nebulizers, and portable oxygen equipment (including regulators and flowmeters) for medical use; anesthesia masks and apparatus; pressure breathing apparatus; oxygen valves and masks for airplane passengers and crews.

HOLDINGS: 6,500 abstracts and indexes; 2,000 periodicals; 3,000 standards and specifications; 2,250 books; 2,000 photos; 1,000 slides; 750 data compilations; 450 project records; 550 technical reports; 400 press releases; 200 reprints; 100 publication lists; 100 bibliographies; newspapers, magnetic tapes, motion pictures, posters and display materials, respiration equipment.

PUBLICATIONS: Catalogs, pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and limited bibliographic services; prepares analyses and evaluations; permits onsite use of collection. Services are primarily for qualified medical or paramedical personnel.

QUALITY BAKERS OF AMERICA COOPERATIVE

1990 120 West 42d St.
New York, N.Y. 10036
Tel: (212) 790-9225

AREAS OF INTEREST: All phases of the baking industry specifically (including processing of flour) and the food industry in general.

HOLDINGS: 550 standards and specifications; 1,200 samples of baked foods (discarded monthly).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides analytical, identification, and testing services on baking ingredients.

Facilities include a headquarters laboratory, mobile laboratory, and access to 143 bakeries for use as pilot plants.

RACIC

see Battelle Memorial Institute

RADAR DESIGN CORP.

1991 Pickard Dr.
Syracuse, N.Y. 13211
Tel: (315) 454-4418

AREAS OF INTEREST: Radar; attenuators; electronic components; coupler, coaxial, and stripline filters; terminations; microwave absorbers.

HOLDINGS: 500 books; 900 periodicals; 250 reports; 300 project records; 1,400 photos; 800 standards and specifications; 500 newsletters; 300 microwave electronic components; reviews, abstracts, indexes, data.

PUBLICATIONS: Newsletter.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services for fee; permits onsite reference.

RADIATION EFFECTS INFORMATION CENTER

see Battelle Memorial Institute

RADIATION SHIELDING INFORMATION CENTER

see Oak Ridge National Laboratory

RADIO TECHNICAL COMMISSION FOR AERONAUTICS

1992 1717 H St. NW., Suite 655
Washington, D.C. 20006
Tel: (202) 296-0484

AREAS OF INTEREST: Aeronautical electronics and telecommunications; aeronautical frequency spectrum utilization; air traffic control; navigation; communications; airports and airspace efficiency.

HOLDINGS: Reports, data.

PUBLICATIONS: *RTCA Digest*; annual report; technical reports and proceedings (available for purchase).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services.

RAILWAY ENGINEERING MAINTENANCE SUPPLIERS ASSOCIATION

1993 332 South Michigan Ave., Suite 2042
Chicago, Ill. 60604
Tel: (312) 922-3373 or 922-7686

AREAS OF INTEREST: Railway engineering, maintenance of way, signal, and communications equipment.

INFORMATION SERVICES: Refers technical inquiries to Association members for reply.

RARE-EARTH INFORMATION CENTER

see Iowa State University of Science and Technology

RAYTHEON CO.

Division Libraries

Information services provided by the Raytheon Libraries are limited for non-Company personnel to interlibrary loan of books and journals and the issuance of some documents for retention when supply permits.

Communications and Data Processing Operations Library

1994 Raytheon Co.
1415 Boston-Providence Turnpike
Norwood, Mass. 02062
Tel: (617) 762-6700

AREAS OF INTEREST: Electrical and electronic engineering; mathematics; physics; communications.

HOLDINGS: 3,100 books; 150 journals; 7,200 reports; 650 reprints; 8 file sections of military specifications.

PUBLICATIONS: *Monthly Bulletin*.

Lowell Library

1995 Raytheon Co.
P.O. Box 740
Woburn St.
Lowell, Mass. 01852
Tel: (617) 452-8911

AREAS OF INTEREST: Mathematics; pure and applied sciences; business management; mechanical design; plastics; metallurgy; statistics.

HOLDINGS: 521 volumes; 2,423 reports; 1,800 trade catalogs; 2,300 military specifications.

PUBLICATIONS: Accession list (monthly).

Missile Systems Division Bedford Complex Library

1996 Raytheon Co.
Hartwell Rd.
Bedford, Mass. 01738
Tel: (617) 274-7100

AREAS OF INTEREST: Guided missiles; space vehicles; aerodynamics; electronics; physics; mathematics.

HOLDINGS: 4,000 books; 850 bound journals; 30,000 documents.

PUBLICATIONS: *Weekly Reports Accessions List*.

Missile Systems Division Engineering Reference Library

1997 Raytheon Co.
Haverhill St.
Andover, Mass. 01811
Tel: (617) 475-5000

AREAS OF INTEREST: Engineering and guided missile systems and subsystems.

HOLDINGS: 2,650 volumes; 180 vertical file drawers of Government documents, pamphlets, and Federal and contractor specifications.

PUBLICATIONS: *Monthly Bulletin*; *Weekly Bulletin*.

Missile Systems Division Library

1998 Raytheon Co.
Vance Tank Rd.
Bristol, Tenn. 37622
Tel: (615) 765-1122

AREAS OF INTEREST: Chemistry; statistics; mathematics; electronics; management.

HOLDINGS: 950 volumes; 23 vertical file drawers of reports; 6 vertical file drawers of handbooks; reprints, pamphlets.

Research Division Library

1999 Raytheon Co.
28 Seyon St.
Waltham, Mass. 02154
Tel: (617) 899-8400

AREAS OF INTEREST: Mathematics; physics; physical chemistry; electrical engineering.

HOLDINGS: 7,000 books; 8,000 bound journals; 5,000 reports; 200 patents; 10,000 unbound periodicals; 300 pamphlets; 200 reprints; 250 translations; 400 microfilm reels; 450 photostats; microfiche.

PUBLICATIONS: *Research Division New Additions* (monthly).

Santa Barbara Operations Library

2000 Raytheon Co.
P.O. Box 636
Santa Barbara, Calif. 93102
Tel: (805) 967-5511

AREAS OF INTEREST: Electronics; mathematics; physics; electrical engineering; space sciences.

HOLDINGS: 1,500 books; 1,000 bound journals; 14,000 reports.

PUBLICATIONS: Accession list (monthly).

Semiconductor Division Technical Library

2001 Raytheon Co.
350 Ellis St.
Mountain View, Calif. 94041
Tel: (415) 968-9211

AREAS OF INTEREST: Semiconductor materials and technology; transistor fabrication and technology; electronics; solid state physics; physical chemistry; electrochemistry.

HOLDINGS: 800 volumes; 2,000 reports; 3,500 patents; journals.

PUBLICATIONS: Accession list.

Space and Information Systems Division Library

2002 Raytheon Co.
528 Boston Post Rd.
Sudbury, Mass. 01776
Tel: (617) 443-9521

AREAS OF INTEREST: Electrical and electronic engineering; communication engineering; space systems; computers; information systems.

HOLDINGS: 3,200 books; 200 journal subscriptions; 230,000 NASA reports; 10,000 other technical reports; military specifications.

Submarine Signal Division Library

2003 Raytheon Co.
1847 West Main Rd.
Portsmouth, R.I. 02871
Tel: (401) 847-8000

AREAS OF INTEREST: Electronics; underwater and air acoustics; antisubmarine warfare electrical engineering; applications of radar, communications, and weapons systems; transducers; piezoelectric materials.

HOLDINGS: 2,500 books; 125 journals; 6,000 reports.

PUBLICATIONS: *Accession Bulletin*.

Wayland Library

2004 Raytheon Co.
Boston Post Rd.
Wayland, Mass. 01778
Tel: (617) 358-2721 Ext. 349

AREAS OF INTEREST: Electronics; radar systems development; navigation and flight control equipment.

HOLDINGS: 10,000 books, including bound journals.

RCA CORP.

Corporate Engineering Services

2005 RCA Corp.
Building 2-8-1
Front and Cooper Sts.
Camden, N.J. 08102
Tel: (609) 963-8000

AREAS OF INTEREST: Electrical, mechanical, chemical, optical, systems, and management engineering; commercial and defense products in the electronics field, including electron tubes, solid state devices, integrated circuits, lasers, components, radars, and broadcast, television, and communication equipment of all kinds.

PUBLICATIONS: *Broadcast News*; *Electronic Age*; *Ham Tips*; *RCA Review*; technical article reprints, technical handbooks, manuals, guides.

INFORMATION SERVICES: Answers inquiries; disseminates some publications free.

RED CEDAR SHINGLE & HANDSPLIT SHAKE BUREAU

2006 5510 White Bldg.
Seattle, Wash. 98101
Tel: (206) 623-4881

AREAS OF INTEREST: Red cedar shingles; machine-grooved red cedar shingles; rebutted-rejointed red cedar shingles; handsplit-resown, tapersplit, and straight-split red cedar shakes.

HOLDINGS: Annual accession of 15,000 shingle and shake inspection reports; photos, technical reports, reviews.

PUBLICATIONS: *Mallet & Froe* (6 issues a year); newsletter (weekly).

INFORMATION SERVICES: Answers technical inquiries.

REDSTONE SCIENTIFIC INFORMATION CENTER

see Army, Department of the. Army Materiel Command. Army Missile Command

THE REFRACTORIES INSTITUTE

2007 3154 One Oliver Plaza
Pittsburgh, Pa. 15222
Tel: (412) 281-6787

AREAS OF INTEREST: Refractories, including firebrick, cement, and mortar used for lining industrial furnaces, but excluding metallic refractories; labor relations and statistics of refractories industry; palletizing.

PUBLICATIONS: *Bulletin* (monthly); *Technical Bulletin* (irregular); *Product Directory*; *Palletizing Manual*.

INFORMATION SERVICES: Answers inquiries; makes referrals.

In cooperation with the Ohio State University, the Institute maintains a Refractories Industry Research Center at The Ohio State University, 2041 North College Road, Columbus, Ohio 43210, tel: (614) 293-7129, for tests on refractories and research and development of new and improved test procedures for the benefit of the entire industry and its customers regardless of membership in The Refractories Institute.

REGIONAL INFORMATION AND COMMUNICATION EXCHANGE

2008 Fondren Library
Rice University
P.O. Box 1892
Houston, Tex. 77001

Location:
6100 Main St.
Houston, Tex.
Tel: (713) 528-3553

AREAS OF INTEREST: Science and technology, including geology, chemistry, electronics, oceanography, physics, mathematics, computer science, chemical engineering, civil engineering, petroleum engineering, electrical engineering, mechanical engineering, nuclear science, biology, medicine, and space sciences.

HOLDINGS: The Exchange has access to the collections of Rice University's Fondren Library and 16 affiliated academic libraries along the western Gulf Coast.

INFORMATION SERVICES: Provides reference, literature-searching, photoduplication, and computer-based technical current awareness services; provides cataloging assistance; provides translations of technical literature; locates material not in the Rice University Library and arranges book loans; makes referrals to other universities, information centers, consultants, Government agencies, commercial groups, and university faculties; sponsors seminars. Most services are provided on a fee basis (a schedule of services and charges is available).

RELIABILITY ANALYSIS CENTER

see IIT Research Institute

REMINGTON ARMS CO., INC.

Supporting Research Library

2009 Remington Arms Co., Inc.
939 Barnum Ave.
Bridgeport, Conn. 06602
Tel: (203) 333-1112

AREAS OF INTEREST: Ammunition; ballistics; explosives.

HOLDINGS: 1,400 books; 600 reports; journals.

INFORMATION SERVICES: Provides document services to non-Company personnel by request.

RENSSELAER POLYTECHNIC INSTITUTE

Molten Salts Data Center

2010 Rensselaer Polytechnic Institute
Troy, N.Y. 12181
Tel: (518) 270-6356

AREAS OF INTEREST: Data on molten salts; inorganic compounds in the molten state; electrical conductance; viscosity; density; surface tension; emf (formation cells).

HOLDINGS: Data.

PUBLICATIONS: Technical reports and/or research or review papers (available to the public through normal channels, i.e., U.S. Department of Commerce or professional technical journals).

INFORMATION SERVICES: Critically evaluates data on molten salts; provides continuing literature searches.

Rensselaer Polytechnic Institute Libraries

2011 Troy, N.Y. 12181
Tel: (518) 270-6427

AREAS OF INTEREST: Bioenvironmental engineering; chemistry; electrophysics; fluid, chemical, and thermal processes; machines and structures; materials; mathematics; mechanics; nuclear engineering and science; physics; systems engineering; aeronautical engineering; astronautics; biomedical engineering; chemical, civil, mechanical, and electrical engineering, including power engineering; environmental engineering; materials engineering.

HOLDINGS: 180,000 volumes of monographs and journals and 3,100 journals currently received (4,300 journal titles in entire collection); research reports collection of some 130,000, consisting mainly of U.S. Atomic Energy Commission and National Aeronautics and Space Administration reports. Approximately 55 percent of the monographic collection lies in the physical sciences, including mathematics, and in technology (engineering).

PUBLICATIONS: Contract research reports.

INFORMATION SERVICES: Provides reference and facsimile duplication services; makes interlibrary loans; permits onsite reference.

REPUBLIC AVIATION DIVISION ENGINEERING LIBRARY

see Fairchild Hiller

REPUBLIC STEEL CORP.

Research Center Library

2012 Republic Steel Corp.
P.O. Box 7806
Cleveland, Ohio 44131

Location:

6801 Brecksville Rd.
Cleveland, Ohio
Tel: (216) 524-5100 Ext. 246 or 247

AREAS OF INTEREST: Ferrous and nonferrous metallurgy; analytical, inorganic, and physical chemistry; solid state physics; materials engineering; mechanical engineering; welding metallurgy; nondestructive testing; mathematics, statistics, and data processing; electronics; nucleonics.

HOLDINGS: Books, journals, reports, translations, patents, microfilm, trade literature.

PUBLICATIONS: Accessions list (quarterly); bibliographies.

INFORMATION SERVICES: Provides reference services to special libraries; permits onsite reference by request; provides limited duplication services; makes interlibrary loans.

REPUBLICAN RIVER COMPACT ADMINISTRATION

2013 c/o Division of Water Resources
232 State Services Bldg.
Denver, Colo. 80203
Tel: (303) 222-9911

AREAS OF INTEREST: Administration of the compact apportionment of the annual water supply of the Arikaree River, North and South Fork of the Republican River, Buffalo Creek, Rock Creek, Frenchman Creek, Blackwood Creek, Driftwood Creek, Red Willow Creek, Medicine Creek, Beaver Creek, Sappa Creek, and Prairie Dog Creek among the States of Colorado, Kansas, and Nebraska, which apportionment is determined from computed average annual virgin water supply.

PUBLICATIONS: Annual report which, among other things, shows computed annual consumptive use of States from the various tributaries set forth above, as well as computed annual virgin water supply.

INFORMATION SERVICES: Answers inquiries related to the Republican River compact.

RESEARCH AND DEVELOPMENT INSTITUTE OF THE UNITED STATES (RADIUS)

2014 P.O. Box 7220
Tulsa, Okla. 74105

Location:

Thompson Bldg., Room 310
Tulsa, Okla.
Tel: (918) 587-2333

AREAS OF INTEREST: Research and development in all subjects, especially water and air pollution, transportation, engineering, geophysics, data processing, cybernetics, automation, medical computer systems, quality control, reliability, and space. The Institute has organized 159 colleges and universities in a five-State region (Arkansas, Kansas, Louisiana, Missouri, and Oklahoma) to explore the feasibility of a data-communications link network.

HOLDINGS: 500 books; 25 periodical titles; 500 reports; Iran, Pakistan, and some United States maps.

PUBLICATIONS: Periodicals, books, abstracts, directories, specifications, bibliographies, reports, maps.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and reference services. Services are provided on a fee basis to all users, except as otherwise provided in specific Government contracts.

RESEARCH ASSETS EXCHANGE

2015 615 East Carson St.
Pittsburgh, Pa. 15203
Tel: (412) 683-6722

AREAS OF INTEREST: Laboratory research and development equipment, including electronic surface analysis devices, recording equipment, metal testing equipment, electron microscopes, specialized computer parts, polarimeters, and amplifiers.

HOLDINGS: Reports, data.

PUBLICATIONS: *Research Assets Exchange* (bimonthly); indexes.

INFORMATION SERVICES: Locates hard-to-find laboratory equipment instruments and components for fee or on contract basis.

RESEARCH COUNCIL ON RIVETED AND BOLTED STRUCTURAL JOINTS

2016 c/o Engineering Foundation
345 East 47th St.
New York, N.Y. 10017
Tel: (212) 752-6800

AREAS OF INTEREST: Structural connections; high strength bolts and rivets.

PUBLICATIONS: Standards and specifications.

INFORMATION SERVICES: Answers brief inquiries; makes referrals.

RESEARCH FOUNDATION OF KANSAS

2017 Ramada Executive Bldg., Suite 23
5th and Jefferson Sts.
Topeka, Kans. 66607
Tel: (913) 296-3581

AREAS OF INTEREST: Research conducted in Kansas in all areas of intellectual endeavor, including the sciences, technology, humanities, and arts; application of research results for the benefit of the State.

HOLDINGS: Data and reports on the research activities and resources of the State of Kansas; rosters of research and development specialists, specialized facilities, consulting engineers, and management consultants.

PUBLICATIONS: *Research News* (monthly); annual report, technical reports, rosters of facilities and specialists, inventory of research resources.

INFORMATION SERVICES: Answers inquiries on research; makes referrals.

RESEARCH MATERIALS INFORMATION CENTER

see Oak Ridge National Laboratory

RESISTANCE WELDER MANUFACTURERS' ASSOCIATION

2018 1900 Arch St.
Philadelphia, Pa. 19103
Tel: (215) 564-3484

AREAS OF INTEREST: Resistance welding equipment, components, and supplies; standards and specifications.

PUBLICATIONS: Resistance Welding Equipment Standards and other articles pertaining to both processes and applications.

INFORMATION SERVICES: Answers brief inquiries.

RESOURCE SYNERGISTICS INC.

2019 19930 Lubao Pl.
Chatsworth, Calif. 91311
Tel: (213) 363-7346

AREAS OF INTEREST: Natural resources; regional, national, and global planning; phenomena of urbanization; population control and demography; environmental systems; manpower; human ecology; information systems; technosocial forecasting; human demand and need analysis; urban growth modelling; transportation systems.

HOLDINGS: 2,100 books; 200 reports; 60 maps and charts; 100 periodicals; 400 preprints and reprints; 20 bibliographies; 600 pamphlets; 6,000 clippings; data.

PUBLICATIONS: Planning studies, reports, books, newsletter, brochure.

INFORMATION SERVICES: Answers inquiries; provides consulting services for fee; permits onsite use of literature collection.

RESOURCES ADVISORY BOARD, SOUTHEAST RIVER BASINS

2020 402 New Walton Bldg.
Atlanta, Ga. 30303
Tel: (404) 522-9963

AREAS OF INTEREST: Water and land resources development in the Southeast river basins, an area of about 184,049 square miles in South Carolina, Georgia, Florida, Alabama, and Mississippi, extending from Savannah Basin in South Carolina to Pearl Basin in Mississippi; flood control and prevention; domestic and municipal water supplies; navigation; reclamation, irrigation, and drainage; hydroelectric power and industrial development; soil and forest conservation and utilization; fish and wildlife; recreation; salinity and sediment control; pollution abatement and public health protection; water assessment; estuarine areas; beach erosion control; hurricane protection.

HOLDINGS: 25 drawers of basic data, maps, studies, and supporting information used by the U.S. Study Commission, Southeast River Basins, in formulating the *Plan for Development of the Land and Water Resources of the Southeast River Basins*, published in 1963 as U.S. Senate Document No. 51, 88th Congress; updating information maintained on a continuing basis; small working collection of books, periodicals, and reports.

PUBLICATIONS: Annual report.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services; makes referrals; lends materials held in duplicate; provides single copies of 12-volume sets of U.S. Senate Document No. 51, 88th Congress, and supporting appendices; lends a 16mm color film entitled "Plan for Tomorrow"; permits onsite reference.

RESOURCES FOR THE FUTURE, INC.

2021 1755 Massachusetts Ave. NW.
Washington, D.C. 20036
Tel: (202) 462-4400

AREAS OF INTEREST: Development, conservation, and use of natural resources; energy; minerals; land use and management; water resources; environmental quality; regional and urban studies.

HOLDINGS: A working collection of literature and data (for internal use only).

PUBLICATIONS: *Resources* (leaflet issued 3 times a year); annual report; reprints of selected papers by staff members. Single copies of the above publications are free on request. Research results are published in book form by The Johns Hopkins Press.

INFORMATION SERVICES: Answers inquiries as staff time permits; makes referrals.

REVLON RESEARCH CENTER LIBRARY

2022 945 Zerega Ave.
Bronx, N.Y. 10473
Tel: (212) 824-9000 Ext. 258 or 259

AREAS OF INTEREST: Cosmetics; perfumery.

HOLDINGS: 10,000 books; 250 journals; 500 boxes of pamphlets; patents, reports, data.

INFORMATION SERVICES: Answers inquiries; permits onsite use of collection.

REYNOLDS METALS CO.

Technical Information Services Library

2023 Reynolds Metals Co.
P.O. Box 2346
4th and Canal Sts.
Richmond, Va. 23218
Tel: (703) 649-1411

AREAS OF INTEREST: Aluminum and its alloys; alumina; bauxite; metallurgy; corrosion; castings; wrought products; production; packaging; standards; chemicals; natural resources relating to aluminum.

HOLDINGS: 13,000 books; 5,000 bound journals; reports, patents, data.

PUBLICATIONS: State-of-the-art review, bibliography, accessions lists (intracompany only).

INFORMATION SERVICES: Answers inquiries; provides reference services; makes interlibrary loans; permits onsite use of collection on a need-to-know basis.

REYNOLDS, SMITH AND HILLS

2024 Architects-Engineers-Planners, Incorporated
P.O. Box 4850
Jacksonville, Fla. 32201

Location:

4019 Boulevard Center Dr.
Jacksonville, Fla.
Tel: (904) 396-2011

AREAS OF INTEREST: Architecture; engineering (structural, electrical, mechanical, civil, hydraulic, sanitary, and environmental); planning; nuclear engineering and research; computer programs and research; engineering and economic feasibility studies; air and water pollution control; solid waste disposal; composting.

HOLDINGS: 1,650 books; 500 project records; 400 reports; 7,000 periodicals; 600 technical papers; 150 maps and charts.

PUBLICATIONS: Brochures, bimonthly newsletter.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services for fee; permits onsite use of collection.

RHODE ISLAND AGRICULTURAL EXPERIMENT STATION

see University of Rhode Island

RHODE ISLAND COUNCIL ON HIGHWAY SAFETY

2025 Roger Williams Bldg., B-16
Providence, R.I. 02908
Tel: (401) 521-7100 Ext. 641

AREAS OF INTEREST: Highway safety; causes of motor vehicle accidents; plans and programs to reduce the incidence of motor vehicle accidents.

PUBLICATIONS: Occasional reports.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services; makes referrals.

RHODE ISLAND DEPARTMENT OF HEALTH

Division of Air Pollution Control

2026 Rhode Island Department of Health
020 State Office Bldg.
Providence, R.I. 02903
Tel: (401) 521-7100 Ext. 808

AREAS OF INTEREST: Air quality throughout Rhode Island; air pollution prevention.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services. Services are provided primarily to individuals or groups within Rhode Island.

RHODE ISLAND DEPARTMENT OF NATURAL RESOURCES

Division of Fish and Wildlife

2027 Rhode Island Department of Natural Resources
Veterans' Memorial Bldg.
Providence, R.I. 02903
Tel: (401) 277-2784

AREAS OF INTEREST: Game management; shellfish research; fish propagation and management; fishkills; freshwater and marine fisheries (commercial and sport); pollution; herbicides; water chemistry.

HOLDINGS: A small reference collection of books, periodicals, and reports.

PUBLICATIONS: Books, reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

RHODE ISLAND DEPARTMENT OF PUBLIC WORKS

2028 State Office Bldg.
Providence, R.I. 02903
Tel: (401) 277-2481

AREAS OF INTEREST: Engineering, including highway design, bridge design, construction, planning, materials, traffic analysis, soils, and mapping and surveying.

HOLDINGS: Approximately 250,000 plans for all highway and bridge construction in Rhode Island, condemnation plats, property appraisal records, data on travel desires within the State, highway maps of various sizes, soil boring data, traffic volumes on most State highways, maintenance cost records, construction records and specifications, accident data records, miscellaneous engineering reference material.

PUBLICATIONS: Specifications for highway and bridge construction; construction and design procedural manuals; highway maps of various sizes and areas; annual report, program reports, technical papers, community shelter planning project reports, surveys, studies.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides duplication services of collection for fee; permits onsite use of collection.

RHODE ISLAND SCHOOL OF DESIGN

Department of Architecture

Professional Advisory Service Center

2029 Department of Architecture
Rhode Island School of Design
Providence, R.I. 02903
Tel: (401) 331-3507

AREAS OF INTEREST: Fallout shelter design and analysis.

HOLDINGS: Small collection of reports.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services. Services are provided free to architects, engineers, and building owners.

RHODE ISLAND STATE COUNCIL OF DEFENSE

2030 State House
Providence, R.I. 02903
Tel: (401) 421-7333

AREAS OF INTEREST: Emergency management of State resources.

HOLDINGS: 500 books; 50 periodical titles; 500 reports.

PUBLICATIONS: *The State of Rhode Island Plan for the Emergency Management of Resources.*

INFORMATION SERVICES: Answers inquiries; provides consulting services; permits onsite use of collection.

RHODE ISLAND WATER RESOURCES COORDINATING BOARD

2031 335 State Office Bldg.
Providence, R.I. 02903
Tel: (201) 521-7100 Ext. 235

AREAS OF INTEREST: Water shortages; reservoirs; ground-water exploration; future supplies of drinking water.

PUBLICATIONS: Ground-water investigation reports are issued by the Board in cooperation with the U.S. Geological Survey.

INFORMATION SERVICES: Answers inquiries.

RICE UNIVERSITY

Fondren Library

2032 P.O. Box 1892
Houston, Tex. 77001

Location:

6100 Main St.
Houston, Tex.
Tel: (713) 528-4141 Ext. 317 or 528-3553

AREAS OF INTEREST: Chemistry; physics; geology; mathematics; civil, mechanical, electrical, chemical, and environmental engineering; space sciences.

HOLDINGS: 600,000 books; 10,000 periodical titles; depository collections of Rand Corp., AEC, GPO (complete on microcard since 1962), and other U.S. Government publications; patents (on microfilm from 1966); geological maps, NASA reports.

INFORMATION SERVICES: Makes interlibrary loans and provides duplication services to academic institutions; permits onsite reference. Information services are provided to industrial organizations by the Regional Information and Communication Exchange, described elsewhere in this directory.

Laboratory of Environmental Science and Engineering

2033 Rice University
P.O. Box 1892
Houston, Tex. 77001
Tel: (713) 528-4141 Ext. 508

AREAS OF INTEREST: Biological treatment of industrial wastes; systems analysis of water resources problems; water pollution control; streams; water quality; water reuse; plant physiology; life support systems; ecological systems.

HOLDINGS: Books, periodicals, monographs.

PUBLICATIONS: *Water Technology--A Multidisciplinary Perspective*; *Environmental Pollution--A Challenge to Science and Technology.* A complete list of papers and reports is available.

INFORMATION SERVICES: Individual staff members provide consulting services on a fee basis.

Water Resources Studies Committee

2034 Rice University
Houston, Tex. 77001
Tel: (713) 528-4141 Ext. 508

AREAS OF INTEREST: Coordination of all efforts at Rice University concerned with water resources.

INFORMATION SERVICES: Answers brief inquiries; refers more extensive inquiries to the appropriate department of the University; arranges consulting services.

RIEGEL PAPER CORP.

Research and Development Laboratories

Technical Information Center

2035 Research and Development Laboratories
Riegal Paper Corp.
Milford, N.J. 08848
Tel: (201) 995-2411 Ext. 392 or 465

AREAS OF INTEREST: Papermaking (pulping, coating, converting); plastics; waste treatment; cellulose and surface chemistry; polymer science; food technology; packaging; printing; documentation and information retrieval.

HOLDINGS: 2,000 books; 2,000 pamphlets; ASTM standards and Federal and military specifications relating to paper and packaging; 20 volumes of annual reviews; 500 bibliographies on papermaking.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services; permits onsite use of literature collection; lends materials not in heavy demand on basis of individual consideration by arrangement in advance.

ROCHESTER INSTITUTE OF TECHNOLOGY

Graduate Chemistry Research Library

2036 Rochester Institute of Technology
Science Bldg.
1 Lomb Memorial Dr.
Rochester, N.Y. 14623
Tel: (716) 464-2520

AREAS OF INTEREST: Advanced chemistry; heterocyclic organic compounds; light scattering; resonance spectrometry.

HOLDINGS: 1,000 books; 71 periodical titles; 500 reports.

INFORMATION SERVICES: Answers inquiries; provides reference and literature-searching services; provides duplication services for fee; makes referrals; makes interlibrary loans; permits onsite use of collection.

Graphic Arts Research Center

Information Services

2037 Graphic Arts Research Center
Rochester Institute of Technology
1 Lomb Memorial Dr.
Rochester, N.Y. 14623
Tel: (716) 464-2791

AREAS OF INTEREST: Printing, photographic, and applied art aspects of graphic arts and communication; training programs related to graphic arts designed for industrial management, supervision, and sales personnel.

HOLDINGS: 800 volumes; 210 periodical titles; over 9,000 articles on microfiche; 500 patents; eight vertical file drawers of materials, including three drawers of special reports on printing processes; bibliographies, translations, U.S. and foreign patents.

PUBLICATIONS: *Graphic Arts Progress*; *Graphic Arts Index*; *Graphic Arts Patent Abstracts*; *Abstracts of Photographic Science & Engineering Literature*.

INFORMATION SERVICES: Answers inquiries; provides a complete computer storage and retrieval information service in graphic arts; provides literature-searching, indexing, and copying services on fee basis.

Wallace Memorial Library

2038 Rochester Institute of Technology
One Lomb Memorial Dr.
Rochester, N.Y. 14623
Tel: (716) 464-2562

AREAS OF INTEREST: Applied sciences; business; fine and applied arts; graphic arts; photography; printing; vacuum technology; water conservation and purification.

HOLDINGS: 122,000 volumes; 1,700 periodical titles; technical reports, pamphlets. Special holdings in photography include the Photographic Society of America Collection.

PUBLICATIONS: *Recent Additions to the Library* (monthly).

INFORMATION SERVICES: Makes referrals; makes interlibrary loans; provides duplication services; permits onsite reference.

ROCKWELL MANUFACTURING CO.

Research and Engineering Library

2039 Rockwell Manufacturing Co.
400 North Lexington Ave.
Pittsburgh, Pa. 15208
Tel: (412) 241-8400

AREAS OF INTEREST: Mechanical engineering; hydraulic engineering; metallurgy; mathematics; physics; chemistry; technology.

HOLDINGS: 1,300 books; 250 periodical titles; reports.

PUBLICATIONS: *Library Newsletter*; bibliographies.

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans; provides duplication services.

ROCKY MOUNTAIN CENTER ON ENVIRONMENT

2040 5850 East Jewell Ave.
Denver, Colo. 80222
Tel: (303) 757-5439

AREAS OF INTEREST: Conservation of a quality environment, including a concern for wilderness, roads, highways, natural beauty, wildlife, air and water pollution, urban planning, parks, public land law, and outdoor recreation; environmental law.

HOLDINGS: 500 reports; 25 periodical titles.

PUBLICATIONS: *Open Space Report* (monthly); directories.

INFORMATION SERVICES: Answers inquiries; provides reference and consulting services; prepares statements on various environmental issues. Services are available to organizations and individuals concerned with environmental problems and conservation throughout the Rocky Mountain area. A fee is charged for materials used and postage.

ROCKY MOUNTAIN HYDRAULIC LABORATORY

2041 Address for summer and winter are listed separately

Summer (June 15-Sept. 10):

Allenspark, Colo. 80510
Tel: (303) 747-2297

Winter:

Box U-37
Storrs, Conn. 06268
Tel: (203) 429-3311 Ext. 626

AREAS OF INTEREST: Hydraulics; open channel flow; erosion protection in open channels; protection of off-shore structures from underscour; model studies of erosion problems.

PUBLICATIONS: Reports, films, technical papers. A publications list is available.

INFORMATION SERVICES: Answers brief inquiries; provides consulting services; disseminates reprints of papers and reports.

ROGERS CORP.

Research and Development Technical Library

2042 Rogers Corp.
Lurie R&D Center
Rogers, Conn. 06263
Tel: (203) 774-9605 Ext. 400

AREAS OF INTEREST: Plastics; circuitry; research and development management; polymer technology.

HOLDINGS: 975 books; 135 periodical titles; 925 reports.

INFORMATION SERVICES: Makes interlibrary loans.

THE ROLLS-ROYCE OWNERS CLUB, INC.

2043 c/o John C. Love, Secretary
Green Oak Farm
Kingsville, Md. 21087
Tel: (301) 592-7950

AREAS OF INTEREST: Technical, historical, and other information on the automotive products of Rolls-Royce Limited and the former Rolls-Royce of America, Inc., the Royce and Bentley automobiles; service, maintenance, and preservation of these automobiles.

HOLDINGS: Small reference collection of books, service manuals, owners' handbooks, assembly blueprints, parts manuals, and sales literature.

PUBLICATIONS: *Flying Lady* (bimonthly), containing technical information on the motor cars; reprints of service and technical books; directory of members (annual); specifications of models (issued within the directory); indexes; directory of parts; directory of service.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and reference services. Services are primarily for members or prospective members, but inquiries from others are accepted on their merits.

ROME AIR DEVELOPMENT CENTER

see Air Force, Department of the. Air Force Systems Command

RONA LABORATORIES, INC.

2044 East 22d St.
Bayonne, N.J. 07002
Tel: (201) 437-0800

AREAS OF INTEREST: Natural fish scale pearl essence; natural whole fish pearl essence; all synthetic pearlescent pigments, such as basic lead carbonate, lead phosphate, lead arsonate, bismuth oxychloride, and titanium coated mica.

HOLDINGS: Reports; clippings of Rona advertising in trade journals.

INFORMATION SERVICES: Answers inquiries; provides technical services on use of pearl essence and pearlescent pigments by request without obligation or charge.

ROOFING AND SHEET METAL CONTRACTORS ASSOCIATION OF GEORGIA, INC.

2045 P.O. Box 90519
Atlanta, Ga. 30344
Tel: (404) 766-3342

AREAS OF INTEREST: Sheet metal, roofing, heating, and air conditioning (materials and their application or installation subject to manufacturers' specifications).

PUBLICATIONS: Newsletter (monthly).

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, and literature-searching services; makes referrals. Services are provided free to members and for fee to others.

RUBBER MANUFACTURERS ASSOCIATION, INC.

2046 444 Madison Ave.
New York, N.Y. 10022
Tel: (212) 755-9200

AREAS OF INTEREST: Statistics, standards, and specifications on finished rubber and plastic products.

PUBLICATIONS: Standards, specifications, manuals, bulletins, handbooks, fact books, guides, periodic statistical reports on tire shipments and rubber consumption, and a catalog of motion pictures and other teaching aids available from the rubber industry.

INFORMATION SERVICES: Answers inquiries; makes referrals.

RUBBER TECHNOLOGY FOUNDATION

see Los Angeles Rubber Group, Inc.

RURAL ELECTRIFICATION ADMINISTRATION

see Agriculture, Department of

RUTGERS--THE STATE UNIVERSITY

College of Agriculture and Environmental Science

Bureau of Conservation and Environmental Science

2047 College of Agriculture and Environmental Science
Rutgers--The State University
New Brunswick, N.J. 08903
Tel: (201) 247-1766 Ext. 1447

AREAS OF INTEREST: Multidiscipline interdepartmental training and research into environmental toxicology and physiology, fate of chemical contaminants in the environment, depollution and recycling of water, disposal of animal wastes, optimum land use and environmental management, and conversion of waste sources of carbohydrate energy and protein into animal fodder.

HOLDINGS: The Bureau has access to the entire University library collection of texts, journals, reports, etc., covering all aspects of agriculture, medicine, biology, geology, mathematics, chemistry, physics, and environmental science, and access to complete statistical computation facilities.

PUBLICATIONS: *News & Views* (occasional); technical reports in science journals; popular and technical expository papers.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

Library

2048 College of Agriculture and Environmental Science
Rutgers--The State University
New Brunswick, N.J. 08903

Tel: (201) 247-1776 Ext. 1358

AREAS OF INTEREST: Agricultural sciences; environmental science; biomedical research; water pollution; sanitary and water engineering; meteorology; food science; wildlife conservation; animal and plant physiology; animal and veterinary science; soils; entomology; horticulture; forestry.

HOLDINGS: 17,000 books; 15,000 bound volumes of journals; 10,000 documents; 1,500 soil maps; archives of published and unpublished manuscripts dating back to 1920. All material is indexed by subject and author.

INFORMATION SERVICES: Answers inquiries; provides duplication services; makes interlibrary loans; permits onsite use of collection.

Library of Science and Medicine

2049 Rutgers--The State University
New Brunswick, N.J. 08903
Tel: (201) 247-1766

AREAS OF INTEREST: Biological and health sciences; chemistry, including inorganic, analytical, and organic; engineering, including electrical, mechanical, chemical, civil, and soil mechanics; physics; ceramics; metallurgy; geosciences; mathematics; computer technology.

HOLDINGS: Books, journals, reports, and patents, including material in all major languages. The Library is a depository for U.S. Government documents.

INFORMATION SERVICES: Permits onsite reference; makes interlibrary loans; provides duplication services.

New Jersey Agricultural Experiment Station

2050 Rutgers--The State University
New Brunswick, N.J. 08903
Tel: (201) 247-1766 Ext. 1867

AREAS OF INTEREST: Agricultural sciences; biology; sanitary and water engineering; meteorology; food science; environmental sciences.

PUBLICATIONS: *Re-Search* (quarterly); reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services regarding State agricultural and environmental problems.

Statistics Center

2051 Rutgers--The State University
22 Morrell St.
New Brunswick, N.J. 08903
Tel: (201) 247-1766 Ext. 6305

AREAS OF INTEREST: Applications of statistical theory and methodology in research, production, and control.

HOLDINGS: Data compilations, punched cards, graphs, tables, technical reports, books, reviews, periodicals, reprints, bibliographies, pamphlets.

INFORMATION SERVICES: Answers inquiries; disseminates reprints.

SACO-LOWELL

2052 P.O. Box 2327
Greenville, S.C. 29602

Locations:

Greenville Highway
Easley, S.C.

R&D Center
Clemson, S.C.
Tel: (803) 859-3211

Saco-Lowell is a division of Maremont Corporation.

AREAS OF INTEREST: Textile machinery.

HOLDINGS: Over 100,000 U.S. and foreign patents; reports, periodicals, standards, posters, newsletters, newspapers, reprints, pamphlets, brochures, press releases.

PUBLICATIONS: Reports, standards, newsletters, reprints, pamphlets, brochures, press releases.

INFORMATION SERVICES: Answers inquiries; provides consulting services free to prospective customers; permits onsite reference.

SACRAMENTO PEAK OBSERVATORY

see Air Force, Department of the. Air Force Systems Command. Cambridge Research Laboratories

SADTLER RESEARCH LABORATORIES, INC.

2053 3316 Spring Garden St.
Philadelphia, Pa. 19104
Tel: (215) 382-7800

AREAS OF INTEREST: Reference spectra for various organic and inorganic compounds, including infrared, ultraviolet, ATR, and nuclear magnetic resonance spectra; differential thermal analysis; thermal gravimetric analysis; stereochemistry; gas chromatography; infrared, ultraviolet, nuclear magnetic resonance, and high resolution mass spectrometry.

HOLDINGS: Books, periodicals, and reprints, primarily related to the area of analytical chemistry; a large and up-to-date collection (125,000 entries) of infrared, ultraviolet, and nuclear magnetic resonance spectra.

PUBLICATIONS: Sadtler Standard Infrared, Ultra Violet, ATR, and Nuclear Magnetic Resonance spectra, and DTA thermograms (available for sale on microfilm, magnetic computer tapes, or in printed volumes).

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, literature-searching, abstracting, indexing, and duplication services for fee; offers courses on fee basis in infrared spectroscopy, gas chromatography, nuclear magnetic resonance spectrometry, stereochemistry, ultraviolet spectroscopy, differential thermal analysis, and thermal gravimetric analysis; permits onsite use of literature collection.

SAINT LAWRENCE SEAWAY DEVELOPMENT CORP.

see Transportation, Department of

SAINT LAWRENCE UNIVERSITY

Geological Information and Referral Service

2054 State Technical Services Program
Department of Geology
Saint Lawrence University
Canton, N.Y. 13617
Tel: (315) 386-4551 Ext. 324

AREAS OF INTEREST: Geology; geological science relating to business and industry; minerals and mineral industry in New York State.

HOLDINGS: 180,000 volumes.

PUBLICATIONS: Simplified geologic maps (in preparation).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and literature-searching services; makes interlibrary loans.

SAINT LOUIS UNIVERSITY

Pius XII Memorial Library

2055 St. Louis University
3655 West Pine Blvd.
St. Louis, Mo. 63108
Tel: (314) 535-3300 Ext. 386

AREAS OF INTEREST: Physics; mathematics; geophysics; business administration; chemistry.

HOLDINGS: 620,000 volumes. Special collections include George Edward Follonsbee, Pierre Jean De Smet, Vatican Manuscript Library Microfilm Depository, Jesuitica, Automatic Merchandising, Army Map Service, and U.S. Geological Survey.

INFORMATION SERVICES: Makes interlibrary loans.

SAINT PAUL PUBLIC LIBRARY

Science and Industry Room

2056 St. Paul Public Library
90 West 4th St.
St. Paul, Minn. 55102
Tel: (612) 224-3383

AREAS OF INTEREST: Economics; natural science; business; physical science; technology; military science; personal investment service.

HOLDINGS: 669,864 books; 30,000 journals; 10,000 slides; 2,200 microforms; 2,869 maps and charts. (These figures are for the entire Library.)

PUBLICATIONS: *For Your Information* (monthly); booklists, bibliography.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides duplication services for fee; provides bibliographic services; lends materials to qualified borrowers; makes interlibrary loans; permits onsite reference.

SALT INSTITUTE

2057 206 North Washington St.
Alexandria, Va. 22314
Tel: (703) 549-4648

AREAS OF INTEREST: Uses of salt, including highway construction and maintenance; manufacturing, industry, and marketing; chemicals; water treatment; human nutrition; agriculture.

HOLDINGS: Technical reports, reprints, bibliographies, pamphlets.

PUBLICATIONS: *Agricultural Digest* and *Highway Digest* (both issued 3 times a year); brochure.

INFORMATION SERVICES: Answers inquiries; supplies literature.

SALT LAKE CITY PUBLIC LIBRARY

Department of Business, Science and Technology

2058 Salt Lake City Public Library
209 East 5th St., South
Salt Lake City, Utah 84111
Tel: (801) 364-8421

AREAS OF INTEREST: Science and technology; business.

HOLDINGS: Books, periodicals, abstracts, pamphlets, newsletters, maps, charts; materials from the U.S. Geological Survey, Bureau of Mines, Census Bureau, Patent Office, and Smithsonian Institution, and from organizations affiliated with local colleges and universities, such as the Utah Geological Society.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides duplication services; makes interlibrary loans; permits onsite reference.

SAN DIEGO PUBLIC LIBRARY

Science and Industry Section

2059 San Diego Public Library
8th and E Sts.
San Diego, Calif. 92101
Tel: (714) 236-5813

AREAS OF INTEREST: Science and technology, with emphasis on aeronautics and space technology, oceanography, electronics, and business management and organization.

HOLDINGS: 215,000 microforms of AEC and NASA unclassified reports (the Library ceased being a depository for AEC reports in 1969 but retains all reports received until that time); 13,000 maps and charts (topographical maps of the Western United States, Alaska, and Hawaii); 620,000 U.S. and California Government publications; 400 trade directories (world coverage); 650 U.S. and foreign telephone directories; Polk City Directory Library; detailed card index of the reports of the California Bureau of Mines; extensive special collections of aeronautical history, transportation history, and oceanography.

PUBLICATIONS: *Directory of Associated Science Libraries of San Diego–1969*; bibliographies.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and limited research services; provides duplication services for fee.

SAN DIEGO STATE COLLEGE

Sciences and Engineering Library

2060 San Diego State College
5402 College Ave.
San Diego, Calif. 92115
Tel: (714) 286-6383

AREAS OF INTEREST: All areas of the physical sciences and engineering, especially astronomy, chemistry, geology (stratigraphy and invertebrate paleontology), history of science, and mathematics.

HOLDINGS: 75,820 books; 43,850 bound volumes of periodicals (2,025 periodical titles); 1,470 indexes and abstracts (160 titles); 420 microfilm reels; 35,860 microcards; 27,990 microfiche; 6,000 pamphlets; 21,590 technical reports; 670 San Diego State master's theses; 1,700 maps; special collection on the geological history of Pacific Ocean faunas; Zinner collection of astronomy and the history of science.

PUBLICATIONS: *Science and Engineering Library's Monthly New Acquisitions List*; *Selected Reference List of Dictionaries and Encylcopedias*; *Selected Reference List of Biographical Sources*; *Focus on the Environment, a Bibliographic Guide*; *Geology of Baja California and San Diego County, a Bibliography*; *Tycho Brahe, a Bibliography*; *Johann Kepler Bibliography*; *Astronomical Literature in the Ernst Zinner Collection, a Checklist*; *Literature of Time in the Ernst Zinner Collection, a Checklist*; *Zinner Lecture Series*.

INFORMATION SERVICES: Provides reference services to students and faculty of the College, to graduate students and faculty of other colleges, and to local scientific, cultural, educational, and industrial organizations; provides short bibliographies; makes interlibrary loans; conducts tours.

Facilities include a periodical scanning table, microform readers, and a coin-operated photocopier.

SAN FRANCISCO PORT AUTHORITY

2061 Ferry Bldg.
San Francisco, Calif. 94106
Tel: (415) 557-2030

AREAS OF INTEREST: Port and ocean traffic; port maritime facilities; commercial waterfront property management; traffic services and charges.

HOLDINGS: Informational and studies material relating to port services, tenants, and maritime trade; technical tariff publications, press releases, photos, engineering project records, maps and charts, pamphlets, posters and other display materials, motion pictures.

PUBLICATIONS: Pamphlets, press releases.

INFORMATION SERVICES: Answers inquiries; makes referrals.

SAN JOSE STATE COLLEGE

College Library

Science and Technology Division

2062 San Jose State College Library
250 South 4th St.
San Jose, Calif. 95114
Tel: (408) 294-6414

AREAS OF INTEREST: Science and technology, including engineering.

HOLDINGS: 477,897 volumes, including bound periodicals; 3,525 journal titles.

INFORMATION SERVICES: Permits onsite reference; makes interlibrary loans; makes direct loans to professional people and research institutions in the area.

Fibonacci Bibliographical and Research Center

2063 Mathematics Department
San Jose State College
San Jose, Calif. 95114
Tel: (408) 294-6414 Ext. 2175

AREAS OF INTEREST: Many different kinds of generalized Fibonacci numbers, including Lucas sequences; elementary number theory; Fibonacci numbers in nature.

HOLDINGS: Preprints, reprints, photostats.

PUBLICATIONS: *Fibonacci Quarterly Journal*; *Concordance: A Collection of Fibonacci and Lucas Number Formulas, Identities and Special Theorems* (to be published in 1971, ed. by George Ledin, Jr.); *An Introduction to Fibonacci Discovery* (1965, by Brother U. Alfred); pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; suggests areas of research in Fibonacci numbers.

SANDIA LABORATORIES

Fused Salts Information Center

2064 Sandia Laboratories Technical Libraries
P.O. Box 5800
Albuquerque, N. Mex. 87115
Tel: (505) 264-2571

AREAS OF INTEREST: Fused salt systems, including eutectic systems, melting points, and compositions; electrical conductivities of systems, especially in the area of the eutectic composition and melting point; vapor pressures for systems; and free energies of formations.

HOLDINGS: An information bank of data published in the open literature for inorganic mixtures, urea, and the acetates from about 1907 to date.

PUBLICATIONS: *Fused Salt Mixtures, Eutectic Composition and Melting Points* (tables published as Sandia Report SC-R-68-1680); *Fused Salt Mixtures: Specific Conductivity Tables* (SC-R-69-1386).

INFORMATION SERVICES: Answers inquiries; provides consulting services to visitors with proper AEC security clearance. Services are primarily for Government agencies and their contractors, but inquiries are accepted from all sources.

Office of Industrial Cooperation

2065 Office of Industrial Cooperation--3416
Sandia Laboratories
Albuquerque, N. Mex. 87115
Tel: (505) 264-8067

AREAS OF INTEREST: Innovations in science and technology in which industry may be interested; atomic energy technology; transfer of technology.

HOLDINGS: 5,000 reports.

PUBLICATIONS: Industrial briefs (business-oriented summaries describing machines, apparatus, instruments, materials, devices, processes, and techniques developed by AEC contractors); reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services; provides documentation ordered from permuted title index and other miscellaneous information releases.

Simulated Environments Information Center

2066 Sandia Laboratories Technical Libraries
P.O. Box 5800
Albuquerque, N. Mex. 87115
Tel: (505) 264-7568

AREAS OF INTEREST: Engineering test planning, design of test facilities, and testing procedures for simulated environments; space and reentry simulation and simulation of environments controlling shock, pressure, acceleration, vibration, gas mixtures, and combinations of these; behavior and effects of these environments throughout the control range; alteration of the environment by various contaminants.

HOLDINGS: The Center's holdings consist of a working collection of books, periodicals, reports, and test facilities' descriptive data. The Center also has access to the Sandia Laboratories Technical Libraries' collection of over 50,000 books, 200,000 reports, and 2,000 journals.

PUBLICATIONS: *Environmental Engineering Abstracts.*

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, and abstracting services. Services are intended primarily for Government agencies and their contractors, but are also available to other serious researchers.

SAUCERS AND UNEXPLAINED CELESTIAL EVENTS SOCIETY (SAUCERS)

2067 Box 2228
Clarksburg, W. Va. 26301

Location:
537-D West Main St.
Clarksburg, W. Va.
Tel: (304) 622-4524

AREAS OF INTEREST: Unidentified flying objects.

HOLDINGS: 1,000 reports; 100 periodical titles; books, films.

PUBLICATIONS: *Saucer News* (irregular); books.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, reference, literature-searching, and duplication services; permits onsite use of collection. Services are available to any Government, educational, scientific, or technical organization, or any organization doing research on unidentified flying objects. Many limited and informal services are provided free; more detailed and complex services are provided at cost.

SCANDINAVIAN DOCUMENTATION CENTER (SCANDOC)

2068 2136 P St. NW.
Washington, D.C. 20037
Tel: (202) 659-8659

AREAS OF INTEREST: Science information activities in North America and the Scandinavian countries of Denmark, Finland, Iceland, Norway, and Sweden.

HOLDINGS: A small reference collection.

INFORMATION SERVICES: Answers inquiries; serves as an exchange center for nonclassified technical documents and other hard-to-get-hold-of material between North America and Scandinavia; distributes the Scandinavian Research Information Notes published by the Scandinavian Council for Applied Research (twice a year).

SCHOOL BUS MANUFACTURERS INSTITUTE

2069 1012 14th St. NW.
Washington, D.C. 20006
Tel: (202) 783-6446

AREAS OF INTEREST: Manufacture of school buses, including the development of safer and better buses.

HOLDINGS: Data compilations, technical reports, periodicals, standards and specifications, newsletters, reprints, pamphlets, press releases.

PUBLICATIONS: Newsletter (monthly).

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes referrals; prepares analyses and evaluations; permits onsite use of collection. A fee may be charged if an inquirer requires a great deal of information.

SCIENCE COMMUNICATION, INC.

2070 1050 31st St. NW
Washington, D.C. 20007
Tel: (202) 333-1343

AREAS OF INTEREST: Information sciences, including information storage and retrieval technology, abstracting, indexing, scientific or technical document-, information-, and data-handling systems, specialized information services and systems development, user studies and survey techniques, information dissemination techniques, and national information systems and policy development; scientific and technical disciplines, including chemistry, chemical engineering, earth sciences, aerospace technology and science, biochemistry, social sciences, data processing, and chemical process technology.

HOLDINGS: 400 books; 25 periodical titles; 4,000 technical reports and articles.

PUBLICATIONS: Technical reports, state-of-the-art reviews and surveys, directories. Publications are available from the Clearinghouse for Federal Scientific and Technical Information, Department of Commerce, Springfield, Va. 22151.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite use of literature collection in individual cases; provides technical consulting services for fee or on contract basis.

SCIENCE INFORMATION EXCHANGE

see Smithsonian Institution

SCIENCE SERVICE, INC.

2071 1719 N St. NW.
Washington, D.C. 20036
Tel: (202) 667-2255

AREAS OF INTEREST: Science (public understanding, extracurricular activities for young people, identification of talented high school students).

HOLDINGS: 10,000 books; 400 journals; photos.

PUBLICATIONS: *Science News* (weekly); *Things of Science* (monthly kits); pamphlets, brochures. A publications list is available.

INFORMATION SERVICES: Makes referrals; provides reference services; makes interlibrary loans; permits onsite use of collection.

SCIENTIFIC APPARATUS MAKERS ASSOCIATION

2072 1140 Connecticut Ave. NW.
Washington, D.C. 20036
Tel: (202) 223-1360

AREAS OF INTEREST: Scientific instruments and laboratory apparatus.

HOLDINGS: Reports.

PUBLICATIONS: *SAMA Report*; *Government Affairs Bulletins*; technical product standards, brochures, membership directory.

INFORMATION SERVICES: Answers inquiries.

SCIENTIFIC MANPOWER COMMISSION

2073 2101 Constitution Ave. NW.
Washington, D.C. 20418
Tel: (202) 961-1550
(202) 223-6995

AREAS OF INTEREST: Science and engineering; career guidance; training; draft deferment; retraining and utilization of scientific manpower.

HOLDINGS: Books, reports, newsletters, pamphlets; current, historic, and projected data on enrollments, degrees, utilization, military draft, employment, and other areas related to science and engineering manpower.

PUBLICATIONS: *Science, Engineering and Related Career Hints* (SEARCH) (a selected bibliography of career information); *Scientific Engineering Technical Manpower Comments* (monthly except August, with irregular special issues); *Draft Act 1970*; *Draft Facts For Graduates and Graduate Students* (1970); *Salaries of Scientists, Engineers and Technicians* (a summary of salary surveys); special reports.

INFORMATION SERVICES: Answers inquiries; provides draft counseling to universities, industry, and individuals.

SCIENTISTS' INSTITUTE FOR PUBLIC INFORMATION

2074 30 East 68th St.
New York, N.Y. 10021
Tel: (212) 249-2886

AREAS OF INTEREST: Environmental contamination, including radiation; air and water pollution; pesticides; herbicides; food additives; lead poisoning; rat control; narcotics addiction; social issues, including race; automation; population control; nuclear energy for industrial and military usage.

HOLDINGS: 500 books; 500 journals; reports.

PUBLICATIONS: *National Conference for Scientific Information*; *S.I.P.I. Newsletter* (quarterly, free); *Scientist and Citizen* (10 issues a year, subscription); *Science and the Concept of Race* (1968); abstracts, reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services to scientists; makes materials available to constituents; provides duplication, bibliographic, and reference services.

The Institute coordinates activities of 20 local groups disseminating scientific information throughout the United States.

SCM CORP.

Glidden-Durkee Division

Research and Development Laboratory Library

2075 Glidden-Durkee Division
SCM Corp.
5601 Eastern Ave.
Baltimore, Md. 21224
Tel: (301) 633-6400

AREAS OF INTEREST: Ceramics and ceramic engineering; metallurgy; test methods; instrumentation.

HOLDINGS: 500 books; journals, patents, data.

INFORMATION SERVICES: Answers inquiries; provides reference, consulting, and duplication services; permits onsite reference to books and journals.

Research Center Library

2076 Glidden-Durkee Division
SCM Corp.
3901 Hawkins Point Rd.
Baltimore, Md. 21226
Tel: (301) 633-6400 Ext. 294

AREAS OF INTEREST: Inorganic, physical, analytical, polymer, and surface chemistry; pigments for paper, plastics, rubber, and paint; titanium dioxide; ceramics; glass; metal powders; chemical engineering.

HOLDINGS: 4,200 books, including bound periodicals; 6,000 patents; 2,000 standards and specifications; 100 rolls of microfilm; 15 vertical file drawers of reprints, pamphlets, Government reports, etc.; 135 periodical subscriptions; newspapers, reviews, annual reports, bibliographies.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; lends materials; permits onsite use of collection.

Technical Library

2077 Glidden-Durkee Division
SCM Corp.
P.O. Box 389
Jacksonville, Fla. 32201

Location:

Foot of West 61st St.
Jacksonville, Fla.
Tel: (904) 764-1711 Ext. 336 or 337

AREAS OF INTEREST: Organic chemistry; engineering; operations research; business.

HOLDINGS: 1,500 books; 1,600 bound periodical volumes; 100 periodical titles; 2,000 reprints of articles pertaining to terpene chemistry, rosin, and fatty acid chemistry; 1,000 trade brochures and catalogs; corporate technical reports (confidential).

PUBLICATIONS: Abstracts, bibliographies, reports.

INFORMATION SERVICES: Permits onsite reference by permission; provides photocopy service by special request.

SCOTT PAPER CO.

Research Library and Technical Information Service

2078 Scott Paper Co.
Scott Plaza
Philadelphia, Pa. 19113
Tel: (215) 724-2000 Ext. 2416

AREAS OF INTEREST: Pulp and paper; plastics; packaging; textiles; chemistry (organic and physical); engineering (chemical and mechanical).

HOLDINGS: About 4,600 books and bound periodicals, 370 journals, 2,000 reports, and 40,000 U.S. and foreign patents; 12 drawers of reprints and translations; bibliographies, indexes, abstracts.

INFORMATION SERVICES: Makes interlibrary loans. The library is open to qualified visitors on appointment.

SCRIPPS INSTITUTION OF OCEANOGRAPHY

see University of California, San Diego

SEATTLE ENGINEERING DEPARTMENT

2079 910 Municipal Bldg.
Seattle, Wash. 98104
Tel: (206) 583-2843

AREAS OF INTEREST: Structural, sewer, water, and general civil engineering design; engineering economy studies; public works administration and management techniques; street classification and standards; solid waste disposal methods and techniques; construction standards for sewer, water, concrete paving, structures, and utilities; traffic operations and planning.

HOLDINGS: One-half million negative file on miscellaneous municipal interests; 3,000 slides; annual reports since 1887; 2 films (industrial and vehicular safety); computer programs; data on street classifications (1,500 miles); library of soil drill logs; file of aperture-film cards of many plans; technical reports, graphs, tables, standards and specifications, display materials, data from rain gage network, traffic operations and study data.

PUBLICATIONS: Maps, charts, reports, standards, annual report, press releases, field engineer's manual.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference.

SEATTLE PUBLIC LIBRARY

Technology Department

2080 Seattle Public Library
4th and Madison Sts.
Seattle, Wash. 98104
Tel: (206) 624-3800

AREAS OF INTEREST: All areas of engineering and physical sciences, with emphasis on geology and mining in the Pacific Northwest; aeronautics, both historical and current.

HOLDINGS: 142,500 books and periodicals, including 14,300 in the field of aeronautics; 22 file cabinet drawers of specifications (largely nongovernmental), in addition to several sets of catalogued standards; 35,400 geological survey maps; 3,000 trade catalogs; depository holdings of U.S. Government publications, including patent abstracts and indexes going back to 1790.

PUBLICATIONS: Bibliographies, brochures, annual report.

INFORMATION SERVICES: Answers inquiries; provides duplication services; makes direct and interlibrary loans; makes referrals; permits onsite reference.

SELAS CORP. OF AMERICA

2081 Limekiln Pike and Dreshertown Rd.
Dresher, Pa. 19025
Tel: (215) 646-6600

AREAS OF INTEREST: Manufacturing, engineering, and construction of industrial heating processing systems and systems components, including the following: gas-air mixing machines and ratio controls, burners, control instruments for gas-air combustion, and safety auxiliaries; flame geometry meters; concentration of chemical solutions; large-volume industrial and process water heating; acid pickle tank heating; heat processing equipment and processes for the petrochemicals, petroleum refining, and chemical industries; in-line, point-of-use systems and components for liquid-gas filtration, separation, and adsorption; automated, high-production, critical heat processing equipment (including high-speed brazing, selective heat treating, and high speed heating for hot forming); ovens, lehrs, furnaces, and specialized machinery for the ceramic and glass industries (including automotive, architectural, and specialty glass); and custom-designed continuous and batch processing furnaces for the steel and nonferrous metals industries.

HOLDINGS: 750 books; 1,200 reports; 104 journal titles; tapes, motion pictures, photos, slides, microforms, maps, charts, display materials, project records, sample specimens (metal, clays, and other materials), data.

INFORMATION SERVICES: Answers inquiries; provides consulting services; provides analytical, identification, and testing services for industrial heat and fluid processing applications; lends books and patents, foreign and domestic; makes reports and data available to bona fide requestors on a fee basis.

SENSORY SYSTEMS LABORATORY

2082 P.O. Box 5145
Tucson, Ariz. 85703
Tel: (602) 792-3726

AREAS OF INTEREST: Telemetry of physiology and behavior in wild animals.

HOLDINGS: 500 books; 25 periodical titles; 500 reports.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers brief inquiries free; provides consulting services for fee.

SETON HALL UNIVERSITY

The Computer Center

2083 Seton Hall University
South Orange, N.J. 07079
Tel: (201) 762-9000

AREAS OF INTEREST: Data processing (scientific).

HOLDINGS: Books, periodicals, reviews, standards and specifications, technical reports, graphs, tables, punched cards, project records, newsletters, publication lists, bibliographies.

INFORMATION SERVICES: Answers inquiries; provides consulting and limited bibliographic services; permits onsite reference.

W. A. SHEAFFER PEN CO.

Research and Development Division

2084 W. A. Sheaffer Pen Co.
301 Avenue H
Fort Madison, Iowa 52627
Tel: (319) 372-3300

AREAS OF INTEREST: Design, development, production, and testing of writing instruments, fluids, pencil leads, and erasers; inks (fountain pen, ball pen, marker); oral toxicity of Company products.

HOLDINGS: 3,000 writing instruments of all kinds; 1,100 books; 150 technical reports; 175 standards and specifications; 100 periodical titles; 130 data compilations; product and process information from manufacturers and suppliers, state-of-the-art reviews.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite reference. A competent staff member will assist legitimate inquiring visitors insofar as possible within the limits of Company security.

SHELL CHEMICAL CO.

Technical Information Services

2085 Shell Chemical Co.
110 West 51st St.
New York, N.Y. 10020
Tel: (212) 262-3000

AREAS OF INTEREST: Industrial and agricultural chemicals; pesticides; herbicides; water pollution; plastics and resins; chemistry and technology; synthetic rubber.

HOLDINGS: 2,800 books; 500 journals; 500 reports; 2,000 pamphlets; 30 microforms; 400 bibliographies; newsletters.

PUBLICATIONS: Bibliographies.

INFORMATION SERVICES: Provides reference, literature-searching, abstracting, and duplication services; makes referrals; makes interlibrary loans. Extensive services are provided to Shell Chemical Co. personnel only.

SHERMAN RESEARCH LABORATORIES

2086 3026 Haughton Dr.
Toledo, Ohio 43606
Tel: (419) 479-2020

AREAS OF INTEREST: Chemistry; meat products; agricultural products; food and drug development; electroplating; storage batteries; laboratory equipment, including design and development; manufacture and development of laboratory reagents.

HOLDINGS: Books, journals, reports, patents, data.

INFORMATION SERVICES: Provides consulting services for fee or on contract basis; permits onsite use of literature collection.

SHIPBUILDERS COUNCIL OF AMERICA

2087 1730 K St. NW.
Washington, D.C. 20006
Tel: (202) 338-7722

AREAS OF INTEREST: Shipbuilding and ship repair, including statistics and safety standards.

PUBLICATIONS: Annual report.

INFORMATION SERVICES: Provides reference services.

SHIPPENSBURG STATE COLLEGE

Science Department

2088 Shippensburg State College
Shippensburg, Pa. 17257
Tel: (717) 532-2184

AREAS OF INTEREST: Physical, inorganic, and organic chemistry; mycology; plant ecology; plant physiology; plant taxonomy; animal ecology; quantum mechanics; biochemistry.

HOLDINGS: 100,000 books; 1,300 periodical titles; reports.

PUBLICATIONS: Periodicals, books, reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

SHREVEPORT PETROLEUM LIBRARY

2089 P.O. Box 1523
Shreveport, La. 71102

Location:
Shreve Memorial Library
400 Edwards St.
Shreveport, La.
Tel: (318) 423-2614

AREAS OF INTEREST: Petroleum; geology.

HOLDINGS: Small collection of books, periodicals, and reports.

INFORMATION SERVICES: Permits onsite reference; makes referrals.

SHULTON, INC.

Research and Development Library

2090 Shulton, Inc.
697 Route 46
Clifton, N.J. 07015
Tel: (201) 777-4600 Ext. 224

AREAS OF INTEREST: Cosmetics; organic chemistry; industrial chemicals; essential oils and flavors; perfumery; dermatology; pharmaceuticals; biochemistry; dyes; microbiology.

HOLDINGS: 2,400 books; 1,660 bound journals; 275 journal subscriptions; reports, patents, microfilm.

PUBLICATIONS: List of periodical holdings.

INFORMATION SERVICES: Makes interlibrary loans.

SICKS' RAINIER BREWING CO.

Quality Control Laboratories

2091 Sicks' Rainier Brewing Co.
3100 Airport Way South
Seattle, Wash. 98134
Tel: (206) 622-2600

AREAS OF INTEREST: Beer brewing (raw materials and analysis, including yeast and hops, process, fermentation, equipment, by-products); beer (chemistry, flavor, stability, consumption).

HOLDINGS: 220 books; journals, patents.

INFORMATION SERVICES: Permits onsite reference.

SIGNAL CHEMICAL CO.

Research Center Library

2092 Signal Chemical Co.
P.O. Box 5206
Houston, Tex. 77012
Tel: (713) 923-1651 Ext. 547

AREAS OF INTEREST: Petroleum; chemistry.

HOLDINGS: 3,000 books; journals, reports, patents, data.

PUBLICATIONS: Reports, standards and specifications, data handbook, bibliography.

INFORMATION SERVICES: Makes interlibrary loans upon special request.

SIKORSKY AIRCRAFT DIVISION LIBRARY

see United Aircraft Corp.

SILVER USERS ASSOCIATION

2093 1625 I St. NW., Room 810
Washington, D.C. 20006
Tel: (202) 638-1421

AREAS OF INTEREST: Silver, including its history, sources, industrial and monetary uses, governmental and political policies, supplies, and prices both in the U.S. and abroad.

HOLDINGS: Books, maps, charts, graphs, tables, technical reports, standards, periodicals, abstracts, booklets, clippings, news releases, publication lists, reprints, newsletters.

INFORMATION SERVICES: Answers inquiries; makes referrals; prepares analyses and evaluations.

SIMULATED ENVIRONMENTS INFORMATION CENTER

see Sandia Laboratories

SIMULATION COUNCILS, INC.

2094 P.O. Box 2228
La Jolla, Calif. 92037

Location:
1010 Pearl St.
La Jolla, Calif.
Tel: (714) 459-3888

AREAS OF INTEREST: Simulation (the development and use of models to aid in the evaluation of ideas and the study of dynamic systems or situations, real or postulated) and the related technology; mathematical modeling; information science; definitions and test procedures for analog, hybrid, and digital computing equipment; analog, hybrid, and digital computing techniques.

HOLDINGS: Books, technical reports, reprints, standards and specifications, reviews, periodicals, abstracts, bibliographies, pamphlets, clippings, publication lists.

PUBLICATIONS: *Simulation* (monthly); Simulation and Analog Report (SARE) service.

INFORMATION SERVICES: Answers inquiries as time permits; prepares analyses and evaluations; as a constituent society of AFIPS, participates in sponsoring the Spring and Fall Joint Computer Conferences; cosponsors the annual San Diego Symposium for Biomedical Engineering. Nine Regional Councils sponsor meetings in various locations within their regions four to six times a year.

SINGER-GENERAL PRECISION, INC.

Librascope Technical Library

2095 Singer-General Precision, Inc.
808 Western Ave.
Glendale, Calif. 91201
Tel: (213) 245-8711

AREAS OF INTEREST: Computers; optical systems; ASW systems; fire control systems; acoustics; systems engineering; electronics; head-up displays; data processing; sonar; signal processing.

HOLDINGS: 10,000 books; 300 periodical titles; 8,000 reports; 100 motion pictures; complete standards and specifications; 350 bibliographies; 5,000 pamphlets; newsletters, reprints.

PUBLICATIONS: Accessions list (monthly).

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, literature-searching, and abstracting and indexing services; lends materials; permits onsite use of collection. Users must have security clearance; access to unclassified materials is permitted with escort.

Facilities include a microfilm reader-printer, a microfiche reader-printer, and a Xerox 720 copier.

SIOUX OIL CO.

2096 P.O. Box 820
Newcastle, Wyo. 82701

Location:
740 West Main St.
Newcastle, Wyo.
Tel: (307) 746-4445

AREAS OF INTEREST: Petroleum products.

HOLDINGS: 300 books; 180 technical reports; maps and charts, standards and specifications.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services for fee; permits onsite use of collection.

SMALL HOMES COUNCIL--BUILDING RESEARCH COUNCIL

see University of Illinois

SMALLY, WELLFORD, AND NALVEN, CONSULTING ENGINEERS

2097 P.O. Box 4069
Sarasota, Fla. 33578

Location:
133 South McIntosh Rd.
Sarasota, Fla.
Tel: (813) 958-6671

AREAS OF INTEREST: Civil engineering; coastal engineering; materials testing and foundation investigations; water management studies; municipal sewage and water studies; municipal engineering; subdivision engineering.

HOLDINGS: Soil cores, maps, project records, graphs, technical reports, books, standards and specifications, periodicals, reprints, pamphlets, newsletters, publication lists.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services for fee; provides duplication services for some materials; permits onsite use of literature collection (most reports are available when authorized by client).

A. O. SMITH CORP. LIBRARY

2098 P.O. Box 584
Milwaukee, Wis. 53201

Location:
3533 North 27th St.
Milwaukee, Wis.
Tel: (414) 873-3000

AREAS OF INTEREST: Engineering, including automotive, ceramic, fire protection, electronic, mechanical, metallurgical, petroleum, plastics, and welding; mathematics; data processing; metal fabrication; chemistry; marketing; management; economics.

HOLDINGS: 15,000 books; 5,000 volumes of journals; 6,000 technical reports; standards and specifications.

PUBLICATIONS: In-house announcements and bibliographies.

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans; provides duplication services.

SMITH-EMERY CO.

2099 781 East Washington Blvd.
Los Angeles, Calif. 90021
Tel: (213) 749-3411

AREAS OF INTEREST: Testing and analysis of metals, water, soil, petroleum products, and materials by chemical, physical, and bacteriological methods; soil mechanics; engineering.

HOLDINGS: 4,900 standards and specifications.

PUBLICATIONS: Brochures.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; provides testing of materials for chemical and physical properties; permits onsite reference.

SMITHSONIAN INSTITUTION

Astrophysical Observatory

2100 60 Garden St.
Cambridge, Mass. 02138
Tel: (617) 864-7910

AREAS OF INTEREST: Astronomy; radioastronomy; gamma-ray astronomy; astrophysics; geophysics; satellite geodesy; geomagnetism; gravitation; terrestrial and stellar atmospheres; high-altitude balloons and artificial satellites; satellite tracking; satellite solar and stellar observatories; space engineering and communication; ultraviolet and other radiation; mass spectrometry; meteorites and cosmic dust; meteor photography; planetary and lunar sciences.

HOLDINGS: Satellite tracking data; photographic meteor records. The Observatory maintains a branch of the Smithsonian Library devoted to astrophysics and related subjects, including 5,000 books, 2,000 reports, and 500 periodicals.

PUBLICATIONS: *Special Reports of the Astrophysical Observatory* (approximately semimonthly); *Smithsonian Contributions to Astrophysics* (irregular).

INFORMATION SERVICES: The Observatory's Central Bureau for Satellite Geodesy acts as an information exchange in satellite geodesy. Its Central Bureau for Astronomical Telegrams rapidly disseminates news of discovery of astronomical phenomena. The Observatory, working closely with the Harvard College Observatory in Cambridge, collects data for its research from field stations all over the world. It sponsors a worldwide volunteer satellite observing program (Moonwatch).

Center for Short-Lived Phenomena

2101 60 Garden St.
Cambridge, Mass. 02138
Tel: (617) 864-7910

The Center is an early alert system and clearinghouse for the receipt and dissemination of information on short-lived natural events such as volcanic eruptions, major earthquakes, the birth of new islands, the fall of large fireballs and meteorite showers, major short-lived environmental pollution events, and sudden changes in biological and ecological systems such as animal migrations and colonizations. It was established to improve opportunities for research by providing an organization whose function is to collect and distribute information on short-lived events while environmental changes are still occurring. Scientists in many disciplines and from many countries were invited to join the Center as correspondents. They cooperate with the Center by reporting events, obtaining follow-up information about and traveling to events that occur in their areas, making up-to-date reports to the Center, and occasionally providing assistance to research teams that might be sent to investigate events in their areas. As of June 30, 1970, the Center had 2,500 registered correspondents in 124 countries of the world.

AREAS OF INTEREST: Short-lived, unpredictable natural phenomena in the physical and biological sciences, astrophysics, archaeology, anthropology, and disasters.

HOLDINGS: Over 15,000 feet of color motion picture film on eight volcanic eruptions and the Appalachian squirrel migration; 5,000 color and black-and-white photographs obtained on eleven field expeditions and reconnaissance missions; more than 2,000 high-resolution aerial photographs of the Mt. Mayon volcanic eruption activity taken during a six-week period by the U.S. Air Force; color motion picture and aerial photographs taken during the seven-week period of Cerro Negro volcanic activity; a number of stereo aerial photographs of volcanic eruptions; specimens of eruption products, lava, bombs, ash, and, in some instances, biological specimens from all six of the major volcanic eruptions of 1968; small collection of books, periodicals, and reports; data.

PUBLICATIONS: The Center issues four types of publications: *Event Notification Reports* (reports the occurrence of events that are still in progress); *Event Information Reports* (reports information or specific data on continuing events); *Event Reports* (preliminary and final documentation of information, data, event chronology, and action taken by the Center); and *Annual Reports* (documents the Center's activities for the calendar year). A publications list is available.

INFORMATION SERVICES: Answers inquiries; disseminates reports to scientists who are correspondents of the Center and indicate their desire to receive them, and to all other interested parties who subscribe to the Event Card service on an annual basis.

Information Systems Division

2102 Smithsonian Institution
Room 1315
900 Jefferson Dr. SW.
Washington, D.C. 20560
Tel: (202) 381-5417

AREAS OF INTEREST: Museum information retrieval systems; computer programs for museums and herbaria; information technology and computer technology as it applies to data management.

HOLDINGS: 500 reports.

PUBLICATIONS: Specifications, information bulletins.

INFORMATION SERVICES: Answers inquiries; provides consulting services for fee; provides abstracting and indexing services.

National Air and Space Museum

2103 900 Jefferson Dr. SW.
Washington, D.C. 20560
Tel: (202) 381-5766

This Museum memorializes the development of aeronautics and space exploration. It collects, displays, and preserves for scientific and engineering study aeronautical and astronautical objects and equipment of historical significance.

AREAS OF INTEREST: Aeronautics and astronautics (scientific, engineering, biographical, and historical aspects); aerospace equipment; flight craft of all types, including high-altitude aircraft, guided missiles, rockets, and spacecraft; propulsion and guidance control systems, structures and materials, etc.

HOLDINGS: Aerospace vehicles, manned and unmanned, and related equipment; personal memorabilia; a large collection of photos; drawings, blueprints, technical manuals, handbooks. The Museum maintains a unit library of the Smithsonian Library for use by the staff and visiting researchers.

PUBLICATIONS: *National Aeronautical Collections*; *Annals of Flight* (series); leaflets, three-view drawings.

INFORMATION SERVICES: Answers inquiries; provides educational material for the study of aerospace history; permits onsite reference to library and museum collections.

National Museum of History and Technology

The National Museum of History and Technology is organized into five departments: Applied Arts; Industries; Cultural History; Science and Technology; and National and Military History. The areas of interest and holdings of four of these departments are outlined below. The staff answers inquiries about the collection, identifies objects and artifacts, and provides consulting services on research relating to the collections in the Museum. Approved researchers may have access to the study collections by appointment. Publications of the Museum are issued in the series *Smithsonian Contributions in History and Technology*.

Department of Applied Arts

2104 National Museum of History and Technology
Constitution Ave. between 12th and 14th Sts.
NW.
Washington, D.C. 20560
Tel: (202) 381-6230

AREAS OF INTEREST: Textiles (fibers, fabrics, history, manufacture, preservation); decorative art fabrics and needlework; technology and history of still and motion picture photography; origin of alphabets; development of writing tools; printing processes;

graphic reproduction processes; technological innovations; postal history and philately; monetary history; medallic art.

HOLDINGS: Textile implements and machines; American textiles and handwoven fabrics; photographic equipment, American and foreign; printing presses; Renaissance jewelry; foreign and U.S. postage stamps and covers; numismatics (coins, paper money, tokens, and medals).

Department of Industries

2105 National Museum of History and Technology
Constitution Ave. between 12th and 14th Sts. NW.
Washington, D.C. 20560
Tel: (202) 381-6169

AREAS OF INTEREST: Ceramics and glass; pottery; porcelain; use of enamels from ancient times to the present; general manufacturing processes; petroleum exploration, production, and processing; evolution of peaceful use of nuclear energy; history and technology of coal, oil, and gas; processing of metals and minerals; agricultural technology; food technology; utilization of wood products; history of U.S. forest resources; early modes of land and water transportation; design and construction of sailing ships; railroads; automobiles.

HOLDINGS: English 18th century enamels; ceramics and glass (14th century to the present); agricultural machinery and implements; models and artifacts relating to general manufacturing and to iron and steel, petroleum and mining industries, and nuclear energy; vehicles and vehicle models; early U.S. automobiles; 19th century fishing boats and ship models.

Department of National and Military History

2106 National Museum of History and Technology
Constitution Ave. between 12th and 14th Sts. NW.
Washington, D.C. 20560
Tel: (202) 381-5140

AREAS OF INTEREST: U.S. Army, Navy, Air Force, Marine Corps, and Coast Guard (weapons, ordnance, uniforms, insignia, heraldry); naval architecture; privateering; exploration and navigation; historic underwater sites in the Western Hemisphere; recovery techniques at underwater wreck sites; political history.

HOLDINGS: Firearms, edged weapons, ammunition, uniforms, and flags; models of ordnance and military transportation equipment; navigation instruments; U.S. warship plans and models; personal mementos of distinguished U.S. military and naval personnel; military and naval history and biography; official military and naval documents and manuscript materials; paintings, prints, and photos; artifacts recovered from underwater shipwreck sites; political campaign material and memorabilia relating to historic Americans; First Ladies' gowns.

Department of Science and Technology

2107 National Museum of History and Technology
Constitution Ave. between 12th and 14th Sts. NW.
Washington, D.C. 20560
Tel: (202) 381-5200

AREAS OF INTEREST: The history of physics, chemistry, astronomy, mathematics, and applied science; American and comparative technology from colonial times to the present; electricity and electrical engineering; telephony and telegraphy; early radio; general electronics; mechanical and civil engineering; computers and calculators; horology; typewriters; medicine, surgery, and dentistry; preservation of historical medical apparatus and instruments; pharmacology; pharmacy; crude drugs; classification and arrangement of vegetable drugs.

HOLDINGS: Power machinery; horological items; typewriters; largest U.S. collection of crude drugs; apothecary jars; surgical and dental instruments; antique, scientific and meteorological, geomagnetic, surveying, geodetic, and hydrographic instruments; calculating and computing machines; patent models; artifacts of electrical, telephonic, and telegraphic history.

National Museum of Natural History

Department of Mineral Sciences

2108 National Museum of Natural History
10th St. and Constitution Ave. NW.
Washington, D.C. 20560
Tel: (202) 381-5271

AREAS OF INTEREST: Systematic mineralogy and petrology; composition, constituents, and textures of meteorites and tektites; volcanology; submarine geology; lunar geology and petrology.

HOLDINGS: Extensive research collections of minerals, ores, rocks, meteorites, and tektites.

INFORMATION SERVICES: Answers inquiries; identifies specimens; provides consulting services on materials in the collection; lends specimen material to qualified investigators.

Office of Environmental Sciences

2109 Smithsonian Institution
10th St. and Constitution Ave. NW.
Washington, D.C. 20560
Tel: (202) 381-5365

This Office provides coordination, assistance and leadership in the development of private and federal, national and international relationships of the Smithsonian Institution in the field of environmental sciences. The extension of scientific services, the development of interdisciplinary inter-Bureau endeavors, and the facilitating of funding requests are among the Office's responsibilities.

AREAS OF INTEREST: Environmental sciences. (The specific areas of interest of various units within this Office are described below).

INFORMATION SERVICES: Answers inquiries; makes referrals.

Chesapeake Bay Center for Environmental Studies

2110 Box 622, Route 4
Edgewater, Md. 21012
Tel: (301) 798-4424

AREAS OF INTEREST: Environmental studies of the Chesapeake Bay.

INFORMATION SERVICES: Answers inquiries; makes referrals.

The Center maintains about 2,000 acres as a near natural preserve on the Chesapeake Bay where research may be accomplished towards a full ecosystem understanding of that portion of the environment.

Ecology Program

2111 Office of Environmental Sciences
Smithsonian Institution
10th St. and Constitution Ave. NW.
Washington, D.C. 20560
Tel: (202) 381-5945

AREAS OF INTEREST: Studies of the terrestrial environment.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Oceanography and Limnology Program

2112 Office of Environmental Sciences
Smithsonian Institution
10th St. and Constitution Ave. NW.
Washington, D.C. 20560
Tel: (202) 381-5945

This Program plans and coordinates programs designed to determine the kinds, distributions, and populations of organisms and sediments in the world's oceans.

AREAS OF INTEREST: Systematics of ocean organisms and sediments; ecology, biogeography, and evolution of the specimens collected.

INFORMATION SERVICES: Answers inquiries; makes referrals.

SMITHSONIAN OCEANOGRAPHIC SORTING CENTER

2113 Navy Yard Annex, Building 159
Washington, D.C. 20560
Tel: (202) 381-5642

AREAS OF INTEREST: Sorting marine organisms and sediments; taxonomy and ecology of marine organisms (algae, plankton, larger invertebrates, fishes); antarctic marine organisms; corraline algae of the North Atlantic; sorting techniques; splitting and labeling samples; photomicrography; preserving, handling, and storing marine specimens.

HOLDINGS: Several million biological and mineral marine samples. The Center maintains records of all specimens taken from the antarctic area; records are assembled of the organisms received from international expeditions contributing specimens to the Center.

PUBLICATIONS: *Handbook of Marine Collecting and Curatorial Practices in Biology.*

INFORMATION SERVICES: The Sorting Center provides specialists with sorted material from the collections; uncommitted groups of organisms are sorted into groups and made available for distribution as research material (the availability of such groups is announced in widely distributed biological publications). The Center provides information on classification of marine organisms and supplies forms to oceanographic investigators to ensure maximum collection of environmental data.

Radiation Biology Laboratory

2114 12441 Parklawn Dr.
Rockville, Md. 20852
Tel: (301) 443-2306

The Laboratory studies all forms of radiation affecting the functions of living organisms. It specializes in photobiology and maintains constant-condition rooms, a carbon-dating laboratory, a radioisotope laboratory, and a greenhouse.

AREAS OF INTEREST: Regulatory mechanisms of life processes (photomorphogenesis, phototropism, photoperiodism, induction of photosynthetic activity); solar radiation and morphological responses; storage of energy in macromolecules; interaction of ionizing radiation with synthesizing and morphological systems; effects of X-rays at the cellular and subcellular levels; carbon-dating techniques.

PUBLICATIONS: Research reports in Smithsonian Series and in outside scientific and technical journals.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

Science Information Exchange

2115 1730 M St. NW.
Washington, D.C. 20036
Tel: (202) 381-5511

The Exchange is a clearinghouse for information on scientific research in progress from all available sources--Government, industry, and private. It complements the services of technical libraries and documentation centers by providing information about research in progress between the time a project is proposed or started and the time results are made available in published form.

AREAS OF INTEREST: Current and proposed research projects in all areas of science, including the life, physical, medical, engineering, agricultural, behavioral, and educational sciences; geographical distribution of research grants; automatic computer indexing and retrieval; comparative indexing techniques; computer dictionaries.

HOLDINGS: Synoptic records of current research projects, including name of supporting agency, names of principal and associate investigators, location of work, level of effort, dates of active work, and 200-word description of research in progress. The Exchange also maintains computer and manual indexes to projects.

PUBLICATIONS: *Water Resources Research Catalog*, *Water Resources Thesaurus*, and *Outdoor Recreation Research* (prepared for Department of the Interior); *Abstracts of Research and Demonstration Projects in Social Welfare and Related Fields* (for U.S. Department of Health, Education, and Welfare); other compilations of research records in such fields as urban research, environmental sciences, pesticides, and oceanography.

INFORMATION SERVICES: The Exchange answers questions from individual investigators, such as: Who is currently working in specific fields? Where? Under whose support? It provides program administrators with information that can be used to avoid duplication of research effort and to determine the advantageous distribution of research funds, and with information on general trends over a period of years (patterns of research activity, changes in support and personnel, and changes in topical interest). The system is capable of compiling all research records related to a specific topic or any combination of items to answer questions relating to program management or investigator interests. Service charges cover only the output cost (fee schedules are available).

Smithsonian Institution Libraries

The Smithsonian Institution Libraries maintain a collection of literature in support of the various research programs of the Institution and its museum, education, and public service activities. The areas of interest of the General Library and three of its branches are outlined below. Each library answers inquiries, makes referrals, provides photoduplication services, and makes interlibrary loans. All collections are available for onsite use. The total holdings number about 750,000 volumes.

General Library

2116 Smithsonian Institution Libraries
10th St. and Constitution Ave. NW.
Washington, D.C. 20560
Tel: (202) 381-5382

AREAS OF INTEREST: Museology; travel and exploration; ecology; oceanography; radiation biology; publications of learned societies; reference and bibliography.

National Museum of History and Technology Branch Library

2117 Smithsonian Institution Libraries
Constitution Ave. between 12th and 14th Sts. NW.
Washington, D.C. 20560
Tel: (202) 381-5684

AREAS OF INTEREST: American history; history of science; history of technology; decorative and graphic arts; numismatics; philately. (The collection includes 225,000 trade catalogs.)

National Museum of Natural History Branch Library

2118 Smithsonian Institution Libraries
10th St. and Constitution Ave. NW.
Washington, D.C. 20560
Tel: (202) 381-5382

AREAS OF INTEREST: Systematic botany and zoology; biological evolution; natural history; paleobiology; mineral sciences; meteorites; volcanology.

Smithsonian Astrophysical Observatory Branch Library

2119 60 Garden St.
Cambridge, Mass. 02138
Tel: (617) 864-7910 Ext. 264

AREAS OF INTEREST: Astrophysics; astronomy; mathematics; meteorology; physics.

SOAP AND DETERGENT ASSOCIATION

2120 485 Madison Ave.
New York, N.Y. 10022
Tel: (212) 751-6080

AREAS OF INTEREST: All aspects of the soap and detergent industry, including problems of sewage treatment and water supply attributed to the presence of synthetic detergents; glycerine; fatty acids; household chemicals; cleaning agents; surface-active agents.

HOLDINGS: Books, journals, abstract literature, bibliographies, Federal soap and detergent specifications, pamphlets, clippings, research data.

PUBLICATIONS: Division newsletters (available to members only); *Water in the News* (monthly, free to technical and semitechnical publics in the field of water); *Scientific and Technical Reports* (series on water-related subjects); the following motion pictures: "It's Your Decision--Clean Water" (cosponsored by the Association and the League of Women Voters of the United States) and "The Pursuit of Cleanliness" (loan prints of both films are available free on request).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides limited literature-searching and bibliographic services; permits onsite use of collection.

SOCIETY FOR APPLIED SPECTROSCOPY

2121 P.O. Box 306
Lewiston, N.Y. 14092
Tel: (716) 754-4371 Ext. 48

AREAS OF INTEREST: Spectroscopy.

PUBLICATIONS: *Applied Spectroscopy* (bimonthly journal).

INFORMATION SERVICES: Assists technical inquirers by providing referral service or references to Society publications.

SOCIETY FOR GENERAL SYSTEMS RESEARCH

2122 Headquarters Office
Joseph Henry Bldg., Room 818
2100 Pennsylvania Ave. NW.
Washington, D.C. 20006
Tel: (202) 659-8893

AREAS OF INTEREST: General systems theory; theoretical systems research; human communications; physical and social sciences; mathematics; engineering; general sciences; theory of social systems.

HOLDINGS: Periodicals, preprints, reprints.

PUBLICATIONS: *General Systems Yearbook*; quarterly bulletin; proceedings of annual meetings with the American Association for the Advancement of Science.

INFORMATION SERVICES: Answers inquiries; makes referrals.

SOCIETY FOR SOCIAL RESPONSIBILITY IN SCIENCE

2123 221 Rockhill Rd.
Bala Cynwyd, Pa. 19004
Tel: (215) 664-4515

AREAS OF INTEREST: Physical, biological, and social sciences (constructive purposes).

HOLDINGS: Reports.

PUBLICATIONS: *SSRS Newsletter* (monthly); *Mission to Vietnam*.

INFORMATION SERVICES: Makes referrals; provides consulting services; provides speakers.

SOCIETY OF AIR SAFETY INVESTIGATORS

2124 P.O. Box 21036, Kalorama Station
Washington, D.C. 20009
Tel: (202) 661-8528

AREAS OF INTEREST: Aviation safety; aircraft accident investigation.

PUBLICATIONS: *SASI Forum* (quarterly, restricted at present to members).

INFORMATION SERVICES: Answers inquiries on individual basis.

SOCIETY OF AUTOMOTIVE ENGINEERS, INC.

2125 2 Penn Plaza
New York, N.Y. 10001
Tel: (212) 594-5700

AREAS OF INTEREST: Automobiles; aircraft; engines and engine parts (including diesel engines); electrical and electronic equipment; lubricants and lubrication; fuels and combustion; tires and rims; manufacturing; quality control; space vehicles and travel; safety; legislation.

HOLDINGS: Reports, books, periodicals, indexes, papers.

PUBLICATIONS: *SAE Journal* (monthly); *SAE Handbook* and *SAE Transactions* (both annual); standards and specifications, reports. A list of publications is available.

INFORMATION SERVICES: Answers inquiries; provides reference and duplication services.

SOCIETY OF DIE CASTING ENGINEERS, INC.

2126 14530 West 8 Mile Rd.
Detroit, Mich. 48237
Tel: (313) 543-8500

AREAS OF INTEREST: Die casting, including product design and applications; techniques and principles; quality, costs, and competitive processes; metal handling and melting furnaces; die design, gating, venting, and cooling; die construction techniques; die materials, heat treatment, and welding; types, design, and maintenance of machines; markets, applications, and case histories; mechanization, automation, and safety; trimming, machining, and finishing; electroplating, painting, and chemical coating.

HOLDINGS: Books, journals, and reports concerning metallurgy, melting of metals, and casting metals in metal dies.

PUBLICATIONS: *Die Casting Engineer* (bimonthly); *Transactions* from the National Die Casting Congresses (held in even-numbered years); special reports, proceedings.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides some duplication services for fee.

SOCIETY OF FIRE PROTECTION ENGINEERS

2127 60 Batterymarch St.
Boston, Mass. 02110
Tel: (617) 482-8755

AREAS OF INTEREST: Fire-protection engineering.

HOLDINGS: Journals, reports.

PUBLICATIONS: *SFPE Bulletin* (quarterly); *Fire Technology* (quarterly); reports, proceedings, directory.

INFORMATION SERVICES: Provides reference services.

SOCIETY OF INDEPENDENT PROFESSIONAL EARTH SCIENTISTS

2128 Box 61134, Civic Center Station
Houston, Tex. 77002
Tel: (713) 227-2060

AREAS OF INTEREST: Independent professional earth scientists, including geologists, geophysicists, and petroleum engineers.

PUBLICATIONS: Newsletter (monthly); pamphlets, directory.

INFORMATION SERVICES: Provides names, addresses, and specialties of member earth scientists to users of earth science consultants.

SOCIETY OF MANUFACTURING ENGINEERS

2129 20501 Ford Rd.
Dearborn, Mich. 48128
Tel: (313) 271-1500

AREAS OF INTEREST: Manufacturing management; manufacturing engineering research; planning of manufacturing processes; development of standards for tool and manufacturing engineering; design and manufacture of tools and manufacturing aids.

HOLDINGS: Books, journals, reports, data.

PUBLICATIONS: *Manufacturing Engineering and Management* (monthly); *Technical Digest* (quarterly); various newsletters (irregular); technical papers, research reports, brochure. A list of technical books edited by the Society and published commercially or by the Society is available on request. Information is also available on programmed learning courses and other instructional material.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides limited literature-searching services; provides duplication services for fee; permits onsite use of literature collection.

SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS

2130 9 East 41st St.
New York, N.Y. 10017
Tel: (212) 867-5410

AREAS OF INTEREST: Science and technology of motion pictures, television, photoinstrumentation, and high-speed photography, including color film, lighting, and sound recording.

PUBLICATIONS: *Journal of the SMPTE* (monthly); technical reports, proceedings, standards and specifications, test films.

INFORMATION SERVICES: Answers inquiries; makes referrals.

THE SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS

2131 74 Trinity Pl.
New York, N.Y. 10006
Tel: (212) 943-8650

AREAS OF INTEREST: Naval architecture; marine, ocean, and allied engineering, including hull structure, hydrodynamics, ship machinery, ship operation, ship production, and marine systems related to surface and subsurface vehicles, platforms, and the ocean environment.

HOLDINGS: Books, journals, reports, guides, papers, specifications.

PUBLICATIONS: *Transactions* (annual); *Journal of Ship Research* (quarterly); *Marine Technology* (quarterly); *Technical and Research Bulletins*; *Technical and Research Reports*; *Technical Papers*.

INFORMATION SERVICES: Provides reference services; makes referrals; operates extensive Technical and Research Program for maritime industry and Government agencies.

SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS

2132 P.O. Box 288
Redondo Beach, Calif. 90277

Location:

216 Avenida Del Norte
Redondo Beach, Calif.
Tel: (213) 375-9286

AREAS OF INTEREST: Photo-optical instrumentation engineering for the acquisition, storage, retrieval, and assessment of data; electro-optical instrumentation; high-speed photography; range instrumentation.

HOLDINGS: A file of 10,000 cross-indexed reference sources; 300 books.

PUBLICATIONS: *SPIE Journal* (bimonthly); *Photographic Instrumentation Catalogue*.

INFORMATION SERVICES: Provides consulting and reference services.

SOCIETY OF PLASTICS ENGINEERS, INC.

2133 656 West Putnam Ave.
Greenwich, Conn. 06830
Tel: (203) 661-4770

AREAS OF INTEREST: Plastics and polymers, their uses and properties; injection molding; blow molding; thermosetting molding; metal mold design and construction; casting and plastics tooling; forming; coloring and finishing of plastics; plastics foams; polyolefins.

PUBLICATIONS: *SPE Journal* (monthly); *Polymer Engineering and Science* (bimonthly, includes translations of foreign technical articles); a continuing series of technical books; papers presented at conferences.

INFORMATION SERVICES: Answers brief inquiries, with preference given to inquiries from Society members.

SOCIETY OF REPRODUCTION ENGINEERS

2134 P.O. Box 923
Lakeland, Fla. 33802
Tel: (813) 646-5729

AREAS OF INTEREST: Graphic reproductions, including visual communications systems, microfilm diaze office copying, data processing, xerography, photography, distribution printing, and offset.

HOLDINGS: Books, reports.

PUBLICATIONS: Journal, reports, proceedings, standards and specifications.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

THE SOCIETY OF THE PLASTICS INDUSTRY, INC.

2135 250 Park Ave.
New York, N.Y. 10017
Tel: (212) 687-2675

AREAS OF INTEREST: Plastics, including machinery, mold makers, custom and proprietary molders, vinyl (film, laminators, dispersions), thermoplastics, fluorocarbons, epoxy resin formulators, expandable polystyrene molders, polyethylene film, reinforced plastics, rigid plastic containers, and cellular plastics.

HOLDINGS: Books, journals, reports, data, plastics publications.

PUBLICATIONS: *Plastics Engineering Handbook of SPI*; proceedings, manuals, bulletins, surveys, reports, booklets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides literature-searching and reference services; permits onsite use of collection by request.

SOCIETY OF WOMAN GEOGRAPHERS

2136 1619 New Hampshire Ave. NW.
Washington, D.C. 20009
Tel: (202) 265-2669

AREAS OF INTEREST: Geography and its allied fields, including ethnology, archeology, botany, natural history, sociology, folklore, and arts and crafts.

PUBLICATIONS: *Bulletin* (annual, for members only).

INFORMATION SERVICES: Answers inquiries and makes referrals within limits of staff time.

SOIL CONSERVATION SERVICE

see Agriculture, Department of

SOIL CONSERVATION SOCIETY OF AMERICA

2137 7515 Northeast Ankeny Rd.
Ankeny, Iowa 50021
Tel: (515) 266-1321

AREAS OF INTEREST: Soil conservation and related areas, such as renewable natural resources, water conservation and management, and land use.

PUBLICATIONS: *Journal of Soil and Water Conservation* (bimonthly).

INFORMATION SERVICES: Makes referrals.

SOIL SCIENCE FOUNDATION

2138 1305 East Main St.
Lakeland, Fla. 33801
Tel: (813) 686-1017

AREAS OF INTEREST: Soil analysis and fertilization; fertilization of citrus groves; Florida agriculture; herbicides.

HOLDINGS: 1,000 books; 50 periodical titles; 5,000 reports.

PUBLICATIONS: Periodicals, pamphlets, reports, proceedings, reviews.

INFORMATION SERVICES: Answers inquiries; provides consulting services. All services are provided at cost.

SOIL SCIENCE SOCIETY OF AMERICA

2139 677 South Segoe Rd.
Madison, Wis. 53711
Tel: (608) 238-4222

The Society is closely affiliated with the American Society of Agronomy and the Crop Science Society of America. It also has liaison representatives to the American Forage and Grassland Council, National Academy of Sciences--National Research Council, American Institute of Planners, American Society of Planning Officials, American Society of Agricultural Engineers, American Society of Civil Engineers, American Society for Testing and Materials, Clay Minerals Society, International Association for Quaternary Research, and the International Society of Soil Science.

AREAS OF INTEREST: Soil physics; soil chemistry, soil mineralogy; soil microbiology and biochemistry; soil fertility and plant nutrition; soil genesis, morphology, and classification; soil and water management; forest and range soils; fertilizer technology and use. In addition, committees of the Society cover such topics as training of soil scientists, terminology, information retrieval, microform, translations, particle size and distribution, soil testing and plant analysis, water resources, and geomorphology.

HOLDINGS: Reference library of about 600 books; complete back issues of the Society's bimonthly journal; back issues for 1962-1968 of *Soviet Soil Science*; transactions of the 1st International Congress of Soil Science (1927) and the 7th International Congress of Soil Science (1960); glossary of soil science terms.

PUBLICATIONS: *Soil Science Society of America Proceedings* (bimonthly); the following special publications and books: *Changing Patterns in Fertilizer Use*; *Selected Papers in Soil Formation and Classification*; *Soil Testing & Plant Analysis*; *Glossary of Soil Science Terms*. Publications are available by purchase or subscription.

INFORMATION SERVICES: Answers inquiries; makes referrals.

SOLAR ENERGY SOCIETY

Technical Research Service Center

2140 Solar Energy Society
c/o Dr. William H. Klein, Secretary-Treasurer
Smithsonian Radiation Biology Laboratory
12441 Parklawn Dr.
Rockville, Md. 20852
Tel: (301) 443-2329

AREAS OF INTEREST: Solar energy as a source of heat for evaporation processes, solar distillation, space water heating and absorptive collectors, cooling processes, solar cookers and heat collectors, thermoelectric devices, vapor, hot air, fluid heat engines, solar furnaces, and thermionic devices; solar energy as a source of light for photochemical processes and photoelectric, photovoltaic, photogalvanic, and piezoelectric effects; general aspects of solar energy, including accessories, geophysical and meteorological aspects, materials, energy storage, and power production.

HOLDINGS: 400 books; 200 journals; 5,000 technical papers; 200 microfilms; bibliographies, proceedings, foreign language publications.

PUBLICATIONS: *Solar Energy* (quarterly).

INFORMATION SERVICES: Answers inquiries.

SOLID ROCKET STRUCTURAL INTEGRITY INFORMATION CENTER

see University of Utah

SOUTH CAROLINA AERONAUTICS COMMISSION

2141 P.O. Box 88
West Columbia, S.C. 29169

Location:
Columbia Metropolitan Airport
West Columbia, S.C.
Tel: (803) 758-2766

AREAS OF INTEREST: Aviation in South Carolina; aviation safety; airport construction and maintenance.

HOLDINGS: Films, filmstrips, slides, photos, maps, charts, display materials, reports, reviews, newsletters, pamphlets, press releases.

PUBLICATIONS: *South Carolina Aviation Newsletter* (monthly); *South Carolina Airport Directory*; *Aviation Information Card*; *Aircraft Registration*; *Aviation Education in South Carolina*; safety brochures.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference; lends films; provides speakers; conducts educational workshops.

SOUTH CAROLINA AGRICULTURAL EXPERIMENT STATION

see Clemson University

SOUTH CAROLINA FIRE MARSHAL'S OFFICE

2142 300 Gervais St.
Columbia, S.C. 29201
Tel: (803) 758-2495

AREAS OF INTEREST: Construction and life safety from fire.

HOLDINGS: National Fire Protection Association pamphlets; Southern Standard Building Code; fire prevention code; brochures on commerical safety equipment, materials, etc.; fire safety film library; reports on public buildings.

PUBLICATIONS: *Fire Safety Pre-Planning Guide*; *Fire Safety Training Manual*; fire safety inspection reports on all public buildings in the State; monthly and annual reports.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, literature-searching, abstracting, translation, and duplication services; makes referrals; lends materials; permits onsite use of collection.

SOUTH CAROLINA HIGHWAY SAFETY PROGRAM

2143 Forsythe Bldg., Room 218
915 Main St.
Columbia, S.C. 29201
Tel: (803) 758-2400 or 758-2409

AREAS OF INTEREST: Highway safety.

HOLDINGS: Small collection of periodicals and reports.

PUBLICATIONS: Reports, directives, monthly newsletter.

INFORMATION SERVICES: Answers inquiries; distributes highway safety items of interest to news media and civic and service groups.

SOUTH CAROLINA POLLUTION CONTROL AUTHORITY

2144 J. Marion Sims Office Bldg.
Columbia, S.C. 29201
Tel: (803) 758-5631

AREAS OF INTEREST: Water and air pollution control; radioactivity pollution control; river flow and streamflow; classification of quality of surface waters; pollution law; treatment of domestic and industrial wastes; inspection of plans for sewage treatment and industrial waste treatment plants in South Carolina.

HOLDINGS: 6,500 punched cards; 2,500 project records; 250 maps and charts; 5,000 items of unevaluated data; 200 river and harbor surveys; 11,000 analyzed water samples.

PUBLICATIONS: Data compilations, standards, annual report.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, literature-searching, and bibliographic services.

The Authority maintains radiological, research, and water pollution laboratories for routine testing, and four field laboratories. A permanent rain-gage station is maintained in Columbia and rain-gage networks are set up for periodic air pollution surveys.

SOUTH CAROLINA STATE BOARD OF ENGINEERING EXAMINERS

2145 710 Palmetto State Life Bldg.
Columbia, S.C. 29201
Tel: (803) 758-2855

AREAS OF INTEREST: Licensing of engineers.

PUBLICATIONS: Directory of licensed engineers.

INFORMATION SERVICES: Answers inquiries.

SOUTH CAROLINA STATE DEVELOPMENT BOARD

2146 P.O. Box 927
Columbia, S.C. 29202

Location:
Wade Hampton Bldg.
Columbia, S.C.
Tel: (803) 758-2411

AREAS OF INTEREST: Geology of South Carolina; industrial development of South Carolina; State Technical Services Program; community planning; economic development; State water resources as related to market surveys and industrial locations; high-water marks, chemical composition of water, and ground-water supplies at specific locations; water legislation.

HOLDINGS: 5,000 photos; 2,000 slides; films, periodicals, reports, newsletters, abstracts, bibliographies, publication lists.

PUBLICATIONS: *Trends* (monthly magazine of new business developments in South Carolina); pamphlets, reports, maps, charts.

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes referrals; permits onsite reference.

SOUTH CAROLINA STATE HIGHWAY DEPARTMENT

2147 P.O. Box 191
Columbia, S.C. 29202

Location:

Assembly and Senate Sts.
Columbia, S.C.
Tel: (803) 758-2101

AREAS OF INTEREST: Highways; highway construction and maintenance; motor vehicle administration (driver and vehicle licensing); traffic law enforcement (highway patrol operations).

HOLDINGS: Small collection of books and reports.

PUBLICATIONS: *Carolina Highways* (monthly, published by South Carolina State Highway Department of Columbia); *Standard Specifications for Construction*; *State Primary Highway System Map*; annual report.

INFORMATION SERVICES: Answers inquiries directed to the Director of Public Information.

SOUTH DAKOTA AERONAUTICS COMMISSION

2148 Pierre, S. Dak. 57501
Tel: (605) 224-5911

AREAS OF INTEREST: Aviation in South Dakota; airport construction and maintenance; navigational aid establishment and maintenance.

HOLDINGS: 50 motion pictures; 300 still photos; 200 maps and charts; 300 project records; 75 technical reports; 200 standards and specifications; reviews, newsletters, pamphlets, press releases; surveying and drafting equipment; complete files on Federal aid airport program requirements and specifications.

PUBLICATIONS: Maps, charts, reviews, newsletters.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and bibliographic services; permits onsite use of collection; lends motion pictures.

SOUTH DAKOTA AGRICULTURAL EXPERIMENT STATION

see South Dakota State University

SOUTH DAKOTA CONSERVATION COMMISSION

2149 State Capitol
Pierre, S. Dak. 57501
Tel: (605) 224-3258

AREAS OF INTEREST: Natural resources conservation and development in South Dakota; assistance to, promotion of cooperation between, and coordination of programs of conservation districts.

PUBLICATIONS: Reports (distributed to personnel of State agencies and conservation district supervisors).

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides conservation district supervisors with accounting systems, legal advice, and programs information.

SOUTH DAKOTA DEPARTMENT OF HEALTH

Division of Sanitary Engineering

2150 South Dakota Department of Health
State Office Bldg. 2
Pierre, S. Dak. 57501
Tel: (605) 224-3351

AREAS OF INTEREST: Water pollution control; municipal and industrial waste water treatment; sanitary engineering; public water supply; recreation area water and waste water systems; plumbing; chemical and bacteriological testing of water; flood sanitation in South Dakota; swimming pool and beach sanitation; radiological health; air pollution; occupational health; accident prevention; solid waste disposal.

HOLDINGS: Film library.

PUBLICATIONS: Biennial report, pamphlets, bulletins.

INFORMATION SERVICES: Provides consulting services, chiefly for State residents and organizations; conducts short courses for water works operators, waste water works operators, and swimming pool operators; makes bacteriological and chemical laboratory tests of rural and public water systems, pools, and beaches.

SOUTH DAKOTA GEOLOGICAL SURVEY

2151 Science Center
University of South Dakota
Vermillion, S. Dak. 57069
Tel: (605) 624-4471

AREAS OF INTEREST: Geology, including geohydrology, geophysics, geochemistry, mineralogy, sedimentation, glacial stratigraphy, industrial minerals, geologic mapping, and ground water.

HOLDINGS: Records of oil, gas, and water drill holes; logs, including mechanical, sample, and drillers; mineral and water analyses; various types of file information on mineral and water resources.

PUBLICATIONS: Bulletins, which are detailed reports to inform chiefly those persons in the geological sciences of the results and conclusions of the field and laboratory studies completed by the Survey; reports of investigation, a series summarizing the more important findings of field and laboratory work; circulars, a series of reports, chiefly nontechnical, providing scientific information about a subject of interest primarily for the lay reader; mineral economic reports, a series presenting statistics about mineral production and value (the reports are chiefly reprints of the *U.S. Bureau of Mines Mineral Yearbook*); special reports, a series published to inform chiefly those persons in city government of the results of water investigations made for them (these reports have a limited distribution); outside publications, a series of reports providing for distribution of reprints authored by Survey personnel and originally published in scientific journals; basic data reports, a series, published in cooperation with the State Water Resources Commission and the U.S. Geological Survey, presenting basic data of water investigations; educational series (nontechnical reports issued chiefly to provide authoritative, scientific information for lay readers and for public schools); maps, including mineral resource investigations, oil and gas maps, and geological quadrangle maps.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and duplication services for fee; identifies rocks and minerals; makes interlibrary loans; makes study rooms available for use of file information.

Facilities include X-ray equipment, microscopes, surveying equipment, drilling equipment, drafting facilities, and printing facilities.

SOUTH DAKOTA INDUSTRIAL DEVELOPMENT EXPANSION AGENCY

2152 State Office Bldg.
Pierre, S. Dak. 57501
Tel: (605) 224-5911 Ext. 307

AREAS OF INTEREST: South Dakota industrial development, economic growth, and status of natural resources (timber, minerals, water, agricultural resources); geology; community betterment and planning; economic research; job opportunities for South Dakotans.

PUBLICATIONS: *South Dakota Manufacturers and Processors Directory* (biennial); annual report, data compilations, newsletter, pamphlets.

INFORMATION SERVICES: Answers inquiries related to South Dakota industry and resources; provides consulting services; prepares analyses and evaluations.

SOUTH DAKOTA OFFICE OF STATE ENGINEER

2153 State Office Bldg. 2, Suite 205
Pierre, S. Dak. 57501
Tel: (605) 224-3466

AREAS OF INTEREST: Construction and maintenance of all public buildings in South Dakota, all National Guard armories, and all public libraries controlled by the Library Commission in the respective municipalities; generation and distribution of electrical power for all State-owned facilities; sewer and water; ETV; radio communications; civil defense.

HOLDINGS: Books, photos, maps, project records, graphs, reports, standards, reviews, periodicals, abstracts, publication lists, clippings, data.

PUBLICATIONS: Plans, specifications, biennial report.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY

Department of Civil Engineering

2154 South Dakota School of Mines and
Technology
Rapid City, S. Dak. 57701
Tel: (605) 394-2442

AREAS OF INTEREST: Civil engineering; concrete technology; expansive cement concretes; rigid pavement; prestressed concrete pavement; flexible pavement; airport engineering; waterway engineering; waterway economics; prestressed concrete piling; construction materials in marine environment; concrete in marine environment; Greenheart timber in marine environment; marine fendering; transportation engineering; transportation centers; plastic and elastic analysis of concrete slabs; structural engineering; bridge engineering; concrete bridges; ultimate load analysis of bridges; secondary stresses in rigidly-connected structures; analysis of multiple-tier, multiple-bay bents under any and all loading conditions; matrix-energy methods of structural analysis; continuous girders of variable moment of inertia; space trusses; metallic domes; phenomena, causes, and control of cracking in reinforced concrete members; matrix methods in engineering; matrix methods for solving systems of equations, etc.

PUBLICATIONS: Undergraduate and master's level research reports, papers.

INFORMATION SERVICES: Provides consulting services to private and governmental agencies for fee.

Devereaux Library

2155 South Dakota School of Mines and
Technology
Rapid City, S. Dak. 57701
Tel: (605) 394-2418

AREAS OF INTEREST: Science and technology, with emphasis on geology and paleontology (especially of the Black Hills and Badlands of South Dakota), atmospheric sciences, hydrology, and mining.

HOLDINGS: 65,856 volumes; 1,688 serial titles currently received; 272 feet of Government documents; 513 microfilm reels; 140,825 microcards and microfiche; reports, maps, charts, photos.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite reference.

Engineering and Mining Experiment Station

2156 South Dakota School of Mines and
Technology
Rapid City, S. Dak. 57701
Tel: (605) 394-2496

AREAS OF INTEREST: Mineral industries and technology.

HOLDINGS: Reports, data.

PUBLICATIONS: Reports, proceedings.

INFORMATION SERVICES: Answers inquiries; provides consulting and analytical services for fee.

Museum of Geology

2157 South Dakota School of Mines and
Technology
Rapid City, S. Dak. 57701
Tel: (605) 394-2467

AREAS OF INTEREST: Vertebrate fossils of western South Dakota; minerals of Black Hills; vertebrates; paleontology; geology.

HOLDINGS: 10,500 fossils; 5,000 mineral specimens; reprints.

INFORMATION SERVICES: Provides reference and consulting services; permits onsite reference; lends materials to qualified museums.

SOUTH DAKOTA STATE UNIVERSITY

South Dakota Agricultural Experiment Station

2158 South Dakota State University
Brookings, S. Dak. 57006
Tel: (605) 692-6111

AREAS OF INTEREST: Animal nutrition, breeding, health, range/pasture management, and conservation; soil survey and classification; plant breeding, nutrition, and disease and insect control; irrigation (Institute of Irrigation Technology); agribusiness and marketing; farm buildings and machinery; agricultural engineering; community planning; resource development; population studies; human nutrition; textiles and clothing; veterinary science (Animal Disease Research and Diagnostic Laboratory); wildlife management and research; weather research and information; poultry research.

HOLDINGS: The Station has access to the collections of the University library plus special departmental libraries.

PUBLICATIONS: *South Dakota Farm & Home Research* (quarterly report of research progress); technical and other bulletins, circulars, special reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; prepares and releases information to mass media; arranges interviews and tours; tests soils, water, and seeds; identifies insects, plant diseases, and animal diseases; prepares and records weather information, including specific location summaries.

Facilities include various laboratories, greenhouses, growth chambers, and climatically-controlled storage and research facilities; centrifuges; spectrophotometers; scintillation counters; microscopes; macrohomogenizers; amino acid analyzer; equipment for column, paper, thin-layer, and gas chromatography; lyophilization equipment; electrophoresis apparatus; densitometer; scalers and counters; radiation survey meters; fluorometer; high-speed digital computer; micromanipulator; equipment for study of evapotranspiration; data loggers; poultry research center including laboratories and buildings for brooders, pullet growing, cage-layers, and floor-layers; veterinary laboratory for animal disease research and diagnosis; access to electron microscope; and special infrared and ultraviolet equipment.

South Dakota Cooperative Extension Service

2159 South Dakota State University
Brookings, S. Dak. 57006
Tel: (605) 688-4141

AREAS OF INTEREST: Public problem solving education in agriculture; home economics; youth.

HOLDINGS: Bulletins, reports.

PUBLICATIONS: Bulletins, reports.

INFORMATION SERVICES: Answers inquiries.

Water Resources Research Institute

2160 South Dakota State University
Brookings, S. Dak. 57006
Tel: (605) 688-5141

AREAS OF INTEREST: Water supply; water economics; water quality; waste disposal practices affecting ground-water quality; evapotranspiration; lake production; porosity and permeability of sandstone aquifers; soil moisture; evaporation losses and water requirements of plants; sediment transport and velocities in open channel flows; irrigation; subsurface drainage.

PUBLICATIONS: Technical reports (research results); annual report.

INFORMATION SERVICES: Answers technical inquiries; performs water analysis for nominal fee.

SOUTH DAKOTA WATER RESOURCES COMMISSION

2161 Pierre, S. Dak. 57501
Tel: (605) 224-3584

AREAS OF INTEREST: Water resources in the State; soil and water pollution; hydrology; hydrography.

HOLDINGS: Data.

INFORMATION SERVICES: Answers technical inquiries; makes referrals to other State organizations; permits onsite use of collection.

SOUTHEASTERN LOUISIANA COLLEGE

Southeastern Regional Film Library

2162 Southeastern Louisiana College
Box 797, College Station
Hammond, La. 70401
Tel: (504) 345-1400 Ext. 217

AREAS OF INTEREST: Physical, biological, and social sciences.

HOLDINGS: 16mm films.

PUBLICATIONS: Directories.

INFORMATION SERVICES: Answers inquiries; makes referrals; lends films.

SOUTHEASTERN POWER ADMINISTRATION

see Interior, Department of the

SOUTHEASTERN STATE COLLEGE

Technology Use Studies Center

2163 Southeastern State College
Durant, Okla. 74701
Tel: (405) 924-0121 Ext. 2517

AREAS OF INTEREST: Physical sciences; biological sciences; engineering and technology; social sciences; economic development.

HOLDINGS: A technical data bank supplied by NASA and containing over 300,000 documents, including technical documents and reports developed both in the United States and abroad and materials from scientific and trade journals, books, meeting papers, reports, and articles. In addition to the NASA-supplied data, the Center maintains its own library of various technical journals and related materials.

PUBLICATIONS: Bulletin (quarterly); newsletter (irregular); volumes containing economic, governmental, demographic, and business data for each of 17 southeastern Oklahoma counties.

INFORMATION SERVICES: The Center disseminates to small business firms in 19 counties of southeastern Oklahoma and 15 counties of northeastern Texas the results of basic research and development done for the U.S. space program, using the NASA-supplied data banks as the primary tool in this effort. Industrial specialists are available to work on a person-to-person basis with firms regarding their technical problems.

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION

2164 916 North East Ave.
Waukesha, Wis. 53186
Tel: (414) 547-6721

AREAS OF INTEREST: Existing and forecast population size, distribution, and characteristics; existing and forecast levels of economic activity, economic base and structure, and spatial distribution of economic activity; public financial resource base; capital and noncapital outlays for public works; general revenue and expenditure trends; property value trends; existing and proposed parks, outdoor recreation areas, and related open space, scenic, scientific, and historic sites; wildlife habitat areas; forest and wetland areas; environmental corridors; historic land use development patterns and trends; existing and proposed distribution of residential, commercial, industrial, transportation, communication, utility, governmental, institutional, agricultural, and other land uses; community plans and zoning; existing and proposed supply and use of arterial streets and highways and of mass transit facilities; parking facilities; truck terminal facilities; existing and proposed quantity of travel; historic trends in motor vehicle registrations and mass transit utilization; time and spatial patterns of travel; regional development objectives, principles, and standards; regional plans and plan implementation devices and recommendations; mathematical simulation models for forecasting regional land use development, regional economic development, traffic behavior, and flood routing and water quality; land use plan design models; physiography; geology; climate; sand, gravel, stone, and organic deposits; soil formulation and classification; soil mapping; physical, chemical, and biological properties of soils; interpretations of properties of soils for engineering, rural and urban land use planning, and agricultural, resource conservation, and recreational planning and development applications; ground water; ground-water recharge; wells; erosion; siltation; soil-water relationships; rivers; lakes; reservoirs; eutrophication of lakes; hydraulics; floods and flood control; streamflow measurement; water supply; water use; precipitation; chemical, physical, and biological water analyses; water quality; water pollution; sewerage; sewage treatment; water economics; water resources planning and management; water law relating to channel and flood plain regulation, pollution control, and construction of water control facilities; planning law relating to various physical planning and plan implementation powers available to Federal, State, areawide, and local levels of government in carrying out comprehensive planning efforts; land subdivision practice, procedure, and design; zoning practice, procedure, and design; existing, planned, and potential service areas of public utility systems.

HOLDINGS: Books, reports, journals, abstract literature, bibliographies, other published material.

PUBLICATIONS: Planning and Technical Reports on such topics as economy, population, natural resources, public utilities, land use planning, transportation planning, soils, watershed planning, water law, water quality and flow of streams, land use simulation model, economic simulation model, and planning law; planning guides on such topics as land development, zoning, official mapping, and organization of planning agencies; annual reports, conference proceedings, and bimonthly newsletter; technical records documenting on such topics as urban storm water drainage design, rapid transit service, and on documentation of method and procedures employed in regional planning. A list showing the availability status and price of publications is provided on request.

INFORMATION SERVICES: Answers inquiries; makes referrals; makes interlibrary loans.

SOUTHERN CALIFORNIA METER ASSOCIATION

2165 1333 Sombrero Dr.
Monterey Park, Calif. 91754
Tel: (213) 283-1530 (home phone of Secretary-Treasurer)

AREAS OF INTEREST: Fluid measurement and control.

PUBLICATIONS: *Southern California Meter Association Handbook.* Papers and meetings notices are published in *Instruments and Control Systems*, available on yearly subscription from Rimbach Publications.

INFORMATION SERVICES: Answers inquiries.

SOUTHERN FOREST INSTITUTE

2166 One Corporate Square NE., Suite 280
Atlanta, Ga. 30329
Tel: (404) 633-5137

AREAS OF INTEREST: Forest conservation and the forest products industries of the southern United States.

HOLDINGS: Pamphlets, films, photos, slides, press releases, statistics.

INFORMATION SERVICES: Answers inquiries on forestry and the industry; provides photos.

SOUTHERN FOREST PRODUCTS ASSOCIATION

2167 P.O. Box 52468
New Orleans, La. 70150

Location:
3525 North Causeway Blvd.
Metairie, La.
Tel: (504) 834-8544

AREAS OF INTEREST: Transportation, safety, production, trade, and research in the uses of Southern Pine lumber.

PUBLICATIONS: Technical literature on lumber uses.

INFORMATION SERVICES: Answers inquiries; provides consultation on proper specification of lumber for various uses; makes referrals. Services are available to architects, engineers, and other specifiers and users.

SOUTHERN ILLINOIS UNIVERSITY

Transportation Institute

2168 Southern Illinois University
General Classrooms Bldg., Room 113
Carbondale, Ill. 62901
Tel: (618) 453-2443

AREAS OF INTEREST: Logistics and transportation management, with emphasis on systems management in distribution, water resource utilization, port (water and air) management, and transportation law; transportation systems; carrier economics.

PUBLICATIONS: *A Study of River Ports and Terminals*; *Great Lakes Port and Shipping Systems*; *Proceedings of Information Systems of Physical Distribution Management* seminar; *Proceedings of Strategic Planning in Distribution* seminar; *Growth Situation: Inland Waterways to Distribution*; *The Cost of Capital in Inventory Theory*.

INFORMATION SERVICES: Answers brief inquiries free; performs research projects and studies.

World Resources Inventory

2169 Southern Illinois University
P.O. Box 909
Carbondale, Ill. 62901

Location:
206 West College
Carbondale, Ill.
Tel: (618) 457-2149 or 457-8064

AREAS OF INTEREST: Natural resources; human resources; planning; technology; social cultural change; education; global trends analysis and projection.

HOLDINGS: 500 books and monographs; 350 periodicals; 300 graphs and tables; 400 newsletters; 45 abstracts and indexes; 140 maps and charts; 150 bibliographies; 150 technical reports; 400 pamphlets; 160 publication lists; 150 preprints and reprints; 100 reviews; 150 photos; 900 clippings; data.

PUBLICATIONS: *World Design Science Decade Series: Phase I, Document 1, World Resources, Human Trends and Needs*; *Phase I, Document 2, The Design Initiative*; *Phase I, Document 3, Comprehensive Thinking*; *Phase I, Document 4, The Ten Year Program*; *Phase II, Document 5, Comprehensive Design Strategy*; *Phase II, Document 6, The Ecological Context: Energy & Materials.*

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services for fee; provides bibliographic services; permits onsite reference. The World Resources Inventory serves as the central coordinating office for the World Game Program.

SOUTHERN INTERSTATE NUCLEAR BOARD

2170 800 Peachtree St. NE., Suite 664
Atlanta, Ga. 30308
Tel: (404) 876-4385

AREAS OF INTEREST: Applications of nuclear energy, space, and related sciences in industry, agriculture, medicine, commerce, and research in the 17-state Southern Region; radiation processing of chemicals, textile materials, irradiated wood-plastics, and coatings; preservation of foods by irradiation; nuclear-electric power generation; nuclear-related manufacturing and processing; radioisotopes; radioactive waste burial; SNAP power devices; nuclear and aerospace applications in oceanography; manpower development in nuclear and space fields; radiological health; transportation of radioactive materials; State and Federal legislation in atomic energy.

HOLDINGS: 500 photos; 1,200 periodicals; 80 publication lists; reports, trade journals, statistical data for the nuclear industry, geological data on uranium minerals in the South, pamphlets, brochures, miscellaneous data relating to nuclear and space installations and activities in the South.

PUBLICATIONS: Annual report; monthly newsletter; brochures, conference proceedings, research reports, press releases.

INFORMATION SERVICES: Answers inquiries; provides advisory and counseling services; assists development groups and technical services agencies; makes referrals; conducts briefings, seminars, conferences, and research studies; permits onsite use of collection.

SOUTHERN METHODIST UNIVERSITY

Dallas Seismological Observatory

2171 6407 Airline Rd.
Dallas, Tex. 75205
Tel: (214) 363-5611

AREAS OF INTEREST: Seismology; heat flow; general geophysics.

HOLDINGS: Seismological data and records.

PUBLICATIONS: *Bulletin of Observatory* (quarterly); technical reports, journal articles.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

Facilities include a seismic data processing system, seismographs, an electronics laboratory, a model laboratory, and a mobile laboratory.

Science/Engineering Library

2172 Southern Methodist University
Hillcrest and University Blvd.
Dallas, Tex. 75222
Tel: (214) 363-5611 Ext. 380 or 520

AREAS OF INTEREST: Sciences; mathematics; engineering.

HOLDINGS: 87,000 books; 2,700 journal titles; 65,000 technical reports; 131,000 maps. The Library is a depository for reports issued by the National Aeronautics and Space Administration.

INFORMATION SERVICES: Makes interlibrary loans; provides reference services; permits onsite use of Library. Services to the industrial community are provided by the Industrial Information Services on a membership basis.

SOUTHERN NUCLEAR ENGINEERING, INC. LIBRARY

2173 P.O. Box 10
Dunedin, Fla. 33528

Location:
427 San Christopher Dr.
Dunedin, Fla.
Tel: (813) 733-3138

AREAS OF INTEREST: Nuclear science and technology.

HOLDINGS: 500 books; 30,000 reports; 50 periodical titles.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Makes direct and interlibrary loans; permits onsite reference by arrangement.

SOUTHERN PINE INSPECTION BUREAU

2174 P.O. Box 846
Pensacola, Fla. 32502
Tel: (904) 434-2611

AREAS OF INTEREST: Grading and inspection of Southern Pine lumber.

HOLDINGS: Data.

PUBLICATIONS: Standards and specifications, directory.

INFORMATION SERVICES: Provides grading supervision, quality control, and consulting services to producers, distributors, and consumers of Southern Pine at cost.

SOUTHERN RESEARCH INSTITUTE

2175 2000 Ninth Ave. South
Birmingham, Ala. 35205
Tel: (205) 323-6592

AREAS OF INTEREST: Chemistry, including organic, physical, analytical, and radiochemistry; chemical, mechanical, and electrical engineering; physics, specifically solid state devices; metallurgy; biological sciences; pharmacology; foods; flavors; coal and coal products; plastics; polymers; fibers and textiles; water desalination; cement; paints; inks; fuels; combustion; wood; paper; fertilizers; air pollution; instrumentation; infrared technology; ceramics; corrosion; cancer and virus chemotherapy; toxicology; waste treatment; industrial hygiene.

HOLDINGS: 9,000 books; 19,000 bound volumes of journals; 9,000 reports; 100 reels of microfilm; patents.

PUBLICATIONS: Scientific articles, quarterly bulletin, annual report.

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans; provides reference services; performs contract research; permits onsite use of collection.

Facilities include animal laboratories, analytical chemistry laboratories, machine shop, polygraphs, spectrophotometers, radioactive counting equipment, electron microscope, computer services, microcard reader, microfiche reader, 36mm film reader, and copier.

SOUTHERN STATE COLLEGE

J. M. Peace Library

2176 Southern State College
Magnolia, Ark. 71753
Tel: (501) 234-5293 Ext. 262

AREAS OF INTEREST: Chemistry; geology.

HOLDINGS: 50,000 books; complete file of all Decennial and Collective Indexes to *Chemical Abstracts*; *Applied Science and Technology Index*; Beilsteins *Handbuch der organischen Chemie* 1910-29 (on microfiche); numerous State geological publications and many U.S. Government documents.

PUBLICATIONS: Annual report.

INFORMATION SERVICES: Permits onsite reference; provides duplication services for fee.

Facilities include readers and a reader-printer for both microfilm and microfiche.

SOUTHWEST GREASE AND OIL CO. (KANSAS CITY), INC.

Southwest Research Department

2177 Southwest Grease and Oil Co. (Kansas City), Inc.
3148 Roanoke Rd.
Kansas City, Mo. 64111
Tel: (816) 753-2940

AREAS OF INTEREST: Manufacture and applications of lubricants, asphalt products, mastics, and roof coatings; raw materials used in lubricating greases.

HOLDINGS: Books, reports, journals, patents, correspondence.

PUBLICATIONS: *Southwest Technical Letter* (monthly).

INFORMATION SERVICES: Answers inquiries; permits onsite reference.

SOUTHWEST RESEARCH INSTITUTE LIBRARY

2178 P.O. Drawer 28510
San Antonio, Tex. 78228

Location:
8500 Culebra Rd.
San Antonio, Tex.
Tel: (512) 684-2000

AREAS OF INTEREST: Primary research fields include chemistry and chemical engineering, biochemistry, physics, electronics and electrical engineering, mechanical engineering, civil engineering, engineering mechanics, aerospace engineering, structural and materials engineering, automotive engineering, and bioengineering. In addition, the Library has special facilities for research in air and water pollution and engine exhaust emissions, analytical chemistry, artificial organs, building technology, communications, corrosion, metal fatigue, nondestructive testing, ecology, electric power, explosive and impact effects, gas technology, fire research, flavors, fluid mechanics and hydrodynamics, fuels, lubricants, lubrication, gas dynamics, highway engineering, instrumentation, marine and ocean engineering, oceanography, metallurgy, microwaves, operations research, mineralogy, nuclear reactors, polymers, radiochemistry, safety engineering, spectroscopy, stress analysis, telemetry, testing, transducers, waste disposal, water resources, water treatment, and welding.

HOLDINGS: 22,000 books; 25,000 volumes of journals, with current subscriptions to 1,000 journals in English, French, Dutch, Spanish, German, Russian, Polish, Hungarian, Italian, the Scandinavian languages, Czech, Bulgarian, Yugoslovian, Arabic, Hindi, Japanese, and Turkish; 60,000 reports and documents.

PUBLICATIONS: Accession lists. Other divisions of the Institute issue *Tomorrow Through Research* (bimonthly), technical reports, state-of-the-art reviews, standards and specifications, data handbooks, bibliographies, proceedings, and translations.

INFORMATION SERVICES: Answers inquiries; makes referrals; makes interlibrary loans; permits onsite use of collection. Xerographic and microfilm copying is provided for a fee.

A branch library is located in Houston, Texas, and laboratory collections are maintained in Dayton, Ohio, and Corpus Christi, Texas.

SOUTHWESTERN POWER ADMINISTRATION

see Interior, Department of the

SPACE DISTURBANCES LABORATORY

see Commerce, Department of. Environmental Science Services Administration. Research Laboratories

SPRAGUE ELECTRIC CO. LIBRARY

2179 North Adams, Mass. 01247
Tel: (413) 664-4411 Ext. 2355 or 2516

AREAS OF INTEREST: Chemistry; physics; mathematics; materials sciences; chemical, electrical, and mechanical engineering; electronics.

HOLDINGS: 12,000 books; 300 periodical titles; reports.

PUBLICATIONS: Library bulletin.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, literature-searching, duplication, and translation services through special arrangement; makes interlibrary loans; permits onsite use of collection.

SPRING MANUFACTURERS INSTITUTE, INC.

2180 P.O. Box 959
Bristol, Conn. 06010

Location:
24 Stearns St.
Bristol, Conn.
Tel: (203) 583-2403

AREAS OF INTEREST: Springs and allied products, including compression, extension, torsion, and flat springs.

PUBLICATIONS: *Springs* (biannual); standards and specifications.

INFORMATION SERVICES: Brief inquiries are answered by the office of the Secretary or referred to member companies for reply.

SRF RESEARCH INSTITUTE AND SIDNEY R. FRANK GROUP

2181 P.O. Box 580
Goleta, Calif. 93017

Location:
1500 Cecil Cook Pl.
Santa Barbara Airport
Goleta, Calif.
Tel: (805) 964-4477

AREAS OF INTEREST: Meteorological research, with emphasis on environmental pollution; meso and micro meteorological research and field surveys, including network configurations and data acquisition systems.

HOLDINGS: 500 books; 1,000 reports; films (16mm color cine), slides (35mm and 60mm), photos, maps, journals, charts, data.

INFORMATION SERVICES: Answers brief inquiries; provides consulting and operational services on contract or grant basis; provides duplication services; lends some materials.

SRI

Library Services Department

2182 SRI
333 Ravenswood Ave.
Menlo Park, Calif. 94025
Tel: (415) 326-6200 Ext. 2634

AREAS OF INTEREST: Physical sciences; life sciences; electronics and radio sciences; information sciences and engineering; economics; management systems; urban and social systems; engineering systems.

HOLDINGS: 36,000 books; 1,830 journals; 55,000 technical reports; 66,000 Government publications; 4,000 pamphlets; 14,600 company annual reports.

INFORMATION SERVICES: Makes interlibrary loans.

STAINED GLASS ASSOCIATION OF AMERICA

2183 3600 University Dr.
Fairfax, Va. 22030
Tel: (703) 273-1438

AREAS OF INTEREST: Stained glass windows (decorative art and craft, materials and techniques used in manufacture and installation); architecture; glass painting; apprenticeship in stained glass industry.

HOLDINGS: 450 glass specimens; 750 slides; 275 photos; data compilations, technical reports, reviews, books, periodicals, abstracts and indexes, reprints, pamphlets.

PUBLICATIONS: *Stained Glass* (quarterly journal); *Stained Glass Bibliography*; *Story of Stained Glass* (booklet); *Suggestions on How to Specify and Order Stained Glass Windows*; data compilations, slides, technical reports, standards and specifications, reprints, press releases.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides photos, standards and specifications, reprints, and pamphlets in response to specific requests; provides short lists of literature citations.

STANDARD OIL RESEARCH CENTER

Central Research Library

2184 Standard Oil Research Center
P.O. Box 400
Naperville, Ill. 60540

AREAS OF INTEREST: Petroleum refining and chemistry; petrochemicals; catalysis; metal corrosion; polymers and polymerization.

HOLDINGS: 10,000 books; 20,000 bound journals; 10,000 reports; 500 cartridges of journals on microfilm.

INFORMATION SERVICES: Makes interlibrary loans of books and external reports; copies journal articles.

STANFORD UNIVERSITY

Branner Earth Sciences Library

2185 School of Earth Sciences
Stanford University
Stanford, Calif. 94305
Tel: (415) 321-2300 Ext. 2746

AREAS OF INTEREST: Geology; crystallography; paleontology; geophysics; geochemistry; invertebrate paleozoology, including conchology; mining; metallurgy; petroleum engineering.

HOLDINGS: 50,000 books and journals; 45,000 geological maps and U.S. Geological Survey topographical sheets.

INFORMATION SERVICES: Provides reference and duplication services; makes interlibrary loans; permits onsite reference.

Computation Center

2186 Stanford University
Stanford, Calif. 94305
Tel: (415) 321-2300 Ext. 2895

AREAS OF INTEREST: Computer systems; programming systems; programming languages; computer design; mathematical theory of computation; numerical analysis; artificial intelligence research; non-numerical applications of computers.

HOLDINGS: 4,687 books; 234 serials; 1,600 reports; 4,000 microfiche; 4,000 reels of magnetic tape; 3,250 pamphlets, booklets, leaflets, and brochures; 180 computer program writeups; 3,000 IBM manuals; 500 IBM SHARE Documentation; 200 Burroughs Corporation and other manuals; 500 Stanford Computation Center technical documents; 50 bibliographies; 100 publication lists; preprints, reprints, newsletters, abstracts, indexes.

PUBLICATIONS: Reports, biweekly news bulletin, brochures.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; provides duplication services for fee; makes interlibrary loans; permits onsite use of collection.

Engineering-Economic Planning Library

2187 Civil Engineering Department, Room 280
Stanford University
Stanford, Calif. 94305
Tel: (415) 321-2300 Ext. 4447

AREAS OF INTEREST: Engineering; economic planning; water resources; water economics; transportation.

HOLDINGS: 230 books; 730 reports; 360 monthly periodicals; 215 abstracts and indexes; various Federal Government publications; California State Department of Water Resources reports; pamphlets, bibliographies, lists of publications and accessions, clippings.

PUBLICATIONS: 27 research reports (a publications list is available).

INFORMATION SERVICES: Answers brief inquiries; makes referrals; lends books and reports for use in preparing papers in the fields of water resources, transportation, and engineering economic planning; distributes reports on request.

High Energy Physics Laboratory

2188 Stanford University
Stanford, Calif. 94305
Tel: (415) 327-7800 Ext. 201

AREAS OF INTEREST: Nuclear physics; high energy physics.

HOLDINGS: Technical books and journals for use of the Laboratory staff; approximately 600 reports; preprints, reprints, graphs, tables, photos, data.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides preprints or reprints of journal articles originating in the Laboratory; permits onsite use of collection.

Physics Library

2189 Stanford University
Palo Alto, Calif. 94305
Tel: (415) 321-2300 Ext. 4343 or 4342

AREAS OF INTEREST: All phases of physics, with emphasis on the graduate and research level; astronomy; astrophysics; meteorology.

HOLDINGS: Approximately 17,500 volumes.

INFORMATION SERVICES: Lends materials to persons who fulfill requirements for use of Stanford University libraries; makes interlibrary loans.

Stanford Linear Accelerator Center

2190 Stanford University
P.O. Box 4349
Stanford, Calif. 94305

Location:

2575 Sand Hill Rd.
Menlo Park, Calif.
Tel: (415) 854-3300 Ext. 2204 (Public Information Office)
(415) 854-3300 Ext. 2411 (Library)

AREAS OF INTEREST: Accelerators; high energy physics.

HOLDINGS: 8,000 books; 300 journals; 40,000 reports; 10,000 vendors' catalogs; specifications and standards, films, photos.

PUBLICATIONS: Reports, proceedings.

INFORMATION SERVICES: Answers inquiries; provides stock reference photos; permits onsite reference; makes limited interlibrary loans; gives prearranged tours.

Swain Library of Chemistry

2191 Stanford University
Stanford, Calif. 94305
Tel: (415) 321-2300 Ext. 2511

AREAS OF INTEREST: Chemistry and chemical engineering, including synthetic, theoretical, and structural organic chemistry; electron and nuclear magnetic resonance; optical spectroscopy; high polymers; kinetics and catalysis; fuel cells; electrochemistry; analytical chemistry; structural and theoretical inorganic chemistry.

HOLDINGS: 17,200 volumes; 298 periodical subscriptions.

INFORMATION SERVICES: Permits onsite reference; makes interlibrary loans and provides duplication services for a fee through the Stanford Technical Information Service.

Technical Information Service

2192 Main Library, Room 200A
Stanford University Libraries
Stanford, Calif. 94305
Tel: (415) 321-1073

AREAS OF INTEREST: All fields of sciences and engineering.

HOLDINGS: About 530,000 volumes in sciences and engineering, with 4,000 serial titles currently received.

INFORMATION SERVICES: For commercial and industrial organizations, the Technical Information Service lends books, makes referrals, provides reference and duplication services, and distributes *A Union List of Serials Currently Received in the Science Libraries at Stanford University*. Membership is free, but fees are charged for library use cards and there is a transaction charge for loans and photocopies. (Educational and nonprofitmaking organizations may obtain loans and photocopies from the Interlibrary Loan Service, Room 200A, Main Library, tel: 321-2300 ext. 2012.)

W. W. Hansen Laboratories of Physics

Reports Office

2193 W. W. Hansen Laboratories of Physics
Stanford University
Stanford, Calif. 94305
Tel: (415) 327-7800 Ext. 214

AREAS OF INTEREST: Solid state physics; quantum electronics; plasma physics.

HOLDINGS: 2,000 reports.

PUBLICATIONS: Reports, abstracts, indexes.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; lends materials.

STATE, DEPARTMENT OF

Agency for International Development

Public Services Division

2194 Information Staff
Office of Legislative and Public Affairs
Agency for International Development
U.S. Department of State
Washington, D.C. 20523
Tel: (202) 632-9318

AREAS OF INTEREST: Science and technology for application in the less developed countries, including agriculture, rural development, engineering, food assistance, food from the sea, public health, housing and urban development, nutrition and child feeding, and population; background information on investment opportunities in less developed countries.

HOLDINGS: Technical reports, surveys, studies, etc. prepared in support of specific technical assistance projects.

PUBLICATIONS: *Index to Catalog of Investment Information* (a listing of available reports and studies sponsored by the Agency and other public, international, and private institutions on economic and social conditions, legal requirements, current industry and market status, feasibility investigations, and other investment factors); *Industry Profiles* (400 individual publications giving basic information for the establishment in less developed countries of small and medium-sized plants in selected industries).

INFORMATION SERVICES: Answers inquiries; makes referrals.

International Scientific and Technological Affairs

2195 U.S. Department of State
2201 C St. NW.
Washington, D.C. 20525
Tel: (202) 383-5181 or 383-4201

AREAS OF INTEREST: International scientific and technological affairs, including atomic energy, outer space, and water resources.

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Office of Water for Peace

2196 U.S. Department of State, Room 7430
21st St. and Virginia Ave. NW.
Washington, D.C. 20520
Tel: (202) 632-8693 or 632-8694

AREAS OF INTEREST: Water problems of foreign countries and international water activities of the U.S. Government.

HOLDINGS: Data, reports.

INFORMATION SERVICES: Answers inquiries; makes referrals.

STATE UNIVERSITY OF NEW YORK

College of Ceramics at Alfred University

Library

2197 College of Ceramics at Alfred University
Alfred, N.Y. 14802
Tel: (607) 587-8111 Ext. 29 or 53

AREAS OF INTEREST: Ceramics, including abrasives, cement, concrete, building materials, enamels, mosaics, porcelain, refractories, whitewares; glass; fine art; pottery.

HOLDINGS: 34,000 books; 21,500 monographs; 1,116 periodical titles.

PUBLICATIONS: *Library Notes*; accessions list (monthly); bibliographies.

INFORMATION SERVICES: Provides reference services; provides literature-searching and duplication services, usually for fee; makes interlibrary loans; permits onsite reference.

College of Forestry at Syracuse University

Cellulose Research Institute

2198 College of Forestry at Syracuse University
Syracuse, N.Y. 13210
Tel: (315) 476-3151 Ext. 238

AREAS OF INTEREST: Cellulose and wood chemistry; pulping chemistry; wood anatomy and ultrastructure.

HOLDINGS: Technical reports of graduate student research (including theses); reprints, publication lists.

PUBLICATIONS: Proceedings of the Cellulose Conferences, published as part C of the *Journal of Polymer Science*.

INFORMATION SERVICES: Answers inquiries; provides consulting services; arranges conferences in above subject matters every third year.

Moon Memorial Library

2199 College of Forestry at Syracuse University
Syracuse, N.Y. 13210
Tel: (315) 476-3151 Ext. 287

AREAS OF INTEREST: Forest botany and pathology; forest chemistry; forest economics; forest management; forest zoology; landscape architecture; pulp and paper technology; silviculture; soil science; wildlife management; wood products engineering.

HOLDINGS: 22,016 books; 15,054 bound periodicals; 11,418 serials, 2,038 theses; 12,614 cataloged pamphlets and Government documents; comprehensive collection of abstracting and indexing services covering the above areas of interest.

PUBLICATIONS: Accessions list.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite reference by request.

Wood Products Engineering Department

DEVELOPMENT RESEARCH UNIT

2200 Wood Products Engineering Department
College of Forestry at Syracuse University
Syracuse, N.Y. 13210
Tel: (315) 476-3151

AREAS OF INTEREST: Wood technology; wood product design, development, testing, and evaluation.

INFORMATION SERVICES: Answers brief inquiries; provides consulting services for fee; makes referrals.

Department of Electrical Sciences

Electro- Optical Sciences Center

2201 c/o Professor George W. Stroke
Department of Electrical Sciences
State University of New York
Stony Brook, N. Y. 11790
Tel: (516) 246-7145

AREAS OF INTEREST: Coherent optics; holography; optical processing; image interpretation.

HOLDINGS: Books, papers, photos.

INFORMATION SERVICES: Answers inquiries; provides consulting services primarily to Government agencies.

State University of New York at Buffalo

Technical Information Dissemination Bureau

2202 Faculty of Engineering and Applied Sciences
State University of New York at Buffalo
4232 Ridge Lea Rd.
Buffalo, N.Y. 14221
Tel: (716) 831-1166

AREAS OF INTEREST: Storage, retrieval, and dissemination of information; design of computer-based information storage and retrieval systems; design of library systems.

PUBLICATIONS: State-of-the-art reviews.

INFORMATION SERVICES: Disseminates technical information to scientists and engineers in western New York by matching users' interests with a computer-based data bank; provides retrospective-search service using the resources of the University library; makes referrals; provides non-State Technical Services information dissemination services to faculty and researchers at the University.

STATEN ISLAND INSTITUTE OF ARTS AND SCIENCES

2203 Staten Island Museum
75 Stuyvesant Pl.
Staten Island, N.Y. 10301
Tel: (212) 727-1135

AREAS OF INTEREST: Staten Island geology; botany; entomology; ornithology; biology, including ecology; conservation; microscopy; archeology (American Indian); engineering; astronomy; natural history; genealogy.

HOLDINGS: 10,000 books; 20,000 periodicals; 40,000 clippings; 5,000 reports; data, photos, microforms, maps, charts, publication lists, bibliographies, theses; unique collections in Staten Island geology, diatoms (worldwide), and entomology (cicadas); a collection of American scientific periodicals dating back to 1840.

PUBLICATIONS: *Proceedings of the Staten Island Institute of Arts and Sciences* (1891-1959, 1967 to date); *The New Bulletin* (10 issues a year); newsletters, preprints, reprints, pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and duplication services; makes direct and interlibrary loans; permits onsite reference.

The Institute maintains and operates a 72-acre conservation park with two environmental education laboratories, an administration building and related facilities, outdoor exhibits and trails at High Rock Park Conservation Center, and a 260-acre sanctuary, The William T. Davis Wildlife Refuge.

STEAMSHIP HISTORICAL SOCIETY OF AMERICA, INC.

2204 P.O. Box 191
Staten Island, N.Y. 10304

Headquarters and Library Location:
4 Broad St.
Staten Island, N.Y.
Tel: (212) 727-9583
(212) 442-9200 (Library)

AREAS OF INTEREST: History of steam and power-driven vessels (primarily U.S. and Canadian registry), past and present, including ocean, Great Lakes, and inland rivers vessels; ship operations.

HOLDINGS: A Photo Bank of 10,000 steamship photos; a literature collection of more than 2,000 books on marine subjects, about 100 current periodicals, and files of brochures, pamphlets, deck plans, advertising folders, and other source material; 3 motion pictures.

PUBLICATIONS: *Steamboat Bill* (quarterly journal); *Lytle List* (a compendium of all steam vessels known to exist before the first Government list was issued in 1868) and other books; pamphlets, brochures. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides literature-searching services to nonmembers on fee basis; permits onsite use of collection; sells copies of photos to which the Society holds reproduction rights.

STEEL DECK INSTITUTE

2205 9836 West Roosevelt Rd.
Westchester, Ill. 60153
Tel: (312) 345-8550

AREAS OF INTEREST: Standardization of steel roof decking and accessories; fire testing; diaphragm testing; fire insurance rating; building codes.

HOLDINGS: Data.

PUBLICATIONS: Standards and specifications, reports, pamphlets, motion pictures.

INFORMATION SERVICES: Answers inquiries; makes referrals; lends films.

STEEL DOOR INSTITUTE

2206 2130 Keith Bldg.
1621 Euclid Ave.
Cleveland, Ohio 44115
Tel: (216) 341-7333

AREAS OF INTEREST: Swing standard steel doors and frames.

HOLDINGS: Standards and specifications, pamphlets.

INFORMATION SERVICES: Answers brief inquiries; makes referrals.

STEEL FOUNDERS' SOCIETY OF AMERICA

2207 Westview Towers
21010 Center Ridge Rd.
Rocky River, Ohio 44116
Tel: (216) 333-5115

AREAS OF INTEREST: Steel foundry technology; engineering applications of cast steel; properties of steel castings.

HOLDINGS: Books, journals, reports, films, photos.

PUBLICATIONS: *Journal of Steel Casting Research* (quarterly); *Steel Foundry Facts* (10 issues a year); *Steel Castings Handbook*; manuals, special research reports, proceedings, standards and specifications.

INFORMATION SERVICES: Answers inquiries; provides consulting services. Services are available to anyone, but priority is given to SFSA members and large users of steel castings.

STEEL PLATE FABRICATORS ASSOCIATION, INC.

2208 15 Spinning Wheel Rd.
Hinsdale, Ill. 60521
Tel: (312) 654-3640

AREAS OF INTEREST: Metal plate fabrication, including power and marine boilers, pressure and nonpressure tanks, processing and storage vessels, heat exchangers, weldments, and similar products by the process of cutting, forming, and joining metal plates, shapes, bars, sheet, pipe mill products, and tubing to custom or standard design for factory or field assembly.

PUBLICATIONS: *Directory of Metal Plate Fabricators*; *Welded Steel Water Pipe Manual*; booklets, pamphlets, and brochures on steel water pipe and steel water tanks; safety rules for fabricating shops and field construction.

INFORMATION SERVICES: Answers inquiries; makes referrals. The Association's publications are available for onsite reference.

STEIN ENGINEERING SERVICES, INC.

2209 5602 East Monte Rosa
Phoenix, Ariz. 85018
Tel: (602) 945-4603

AREAS OF INTEREST: The engineering of measuring systems, especially in the field of experimental mechanics; strain gages and their applications to industrial, military, and research problems; mechanical and electrical properties of materials, especially as these relate to transducer properties; special educational programs and consulting services in the field of measurement systems engineering.

HOLDINGS: Books, journals, reports, data.

PUBLICATIONS: *Measurement Engineering Vol. I* (6th Ed., 1970); *Anthropology-Engineering-Psychology Occasional Paper No. 1: Aerospace Anthropology*; *Strain Gage Reading* (bimonthly journal discontinued in 1964; back issues available).

INFORMATION SERVICES: Provides reference, consulting, literature-searching, and bibliographic services and special educational programs for in-house training of engineering and managerial personnel in the engineering of measuring systems; provides state-of-the-art review summaries on measuring techniques, primarily in stress analysis and transducer fields. A fee is charged for services.

STELMA, INC.

Engineering Library

2210 Stelma, Inc.
Stamford, Conn. 06902
Tel: (203) 325-4161 Ext. 206

AREAS OF INTEREST: Electronic communications (design, test, manufacture).

HOLDINGS: 500 books; 25 periodical titles; 500 NASA and DDC reports; about 30,000 military specifications, standards, and handbooks; DCA Circulars.

INFORMATION SERVICES: Makes referrals; makes interlibrary loans; permits onsite use of collection by appointment. Services are available to business enterprises in the Stamford area and greater southwestern Connecticut.

STERLING SILVERSMITHS GUILD OF AMERICA

2211 551 Fifth Ave.
New York, N.Y. 10017
Tel: (212) 687-3833

AREAS OF INTEREST: Silver, including silver tarnish research, silver products, and silversmiths.

PUBLICATIONS: Pamphlets.

INFORMATION SERVICES: Answers brief inquiries from consumers; makes referrals.

STEVENS INSTITUTE OF TECHNOLOGY

Davidson Laboratory

2212 Stevens Institute of Technology
Castle Point Station
711 Hudson St.
Hoboken, N.J. 07030
Tel: (201) 792-2700

AREAS OF INTEREST: Hydrodynamics; stability and control; aerodynamics; oceanography; internal combustion engines; motor vehicle dynamics; highway safety; air pollution from internal combustion engines; construction of a computer simulator of the hydraulics of the Hudson River.

HOLDINGS: Books, reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

Facilities include four hydrodynamic research basins, one subsonic wind tunnel, an instrument laboratory, facilities for investigating flow problems, a variable pressure water channel, laboratory facilities for on and off-road motor vehicle research, and motor vehicle engines.

Samuel C. Williams Library

2213 Stevens Institute of Technology
Castle Point Station
Hoboken, N.J. 07030
Tel: (201) 792-2700

AREAS OF INTEREST: Chemistry, including process control, simulation and optimization, polymer materials, mechanical properties of polymers, and biogenic studies; computer science; cryogenics; electronics, including quantum electron devices, electromagnetic interaction with materials at low temperatures, control theory, and network theory; engineering, including mechanical and electrical; hydrodynamics, including physical oceanography and magnetohydrodynamics; management science, including operations research and economics of engineering; mathematics, including modern algebra, analysis, geometry, topology, probability, and statistics; mechanics, including gas dynamics, thermodynamics, solid mechanics, rocket propulsion, internal combustion engines, and turbomachinery; metallurgy, including properties of surfaces, alloy systems, phase transformation, solid state reaction kinetics, and electron microscopy; physics, including plasma physics, low temperature physics, solid state, many particle, elementary particle, magnetohydrodynamics, relative theory, and quantum mechanics; psychology, including man-machine systems, job placement, and work attitudes.

HOLDINGS: 80,000 volumes of books and periodicals; 1,400 current periodical subscriptions, some on microfilm; F. W. Taylor collection of materials on scientific management; Lieb collection of complete da Vinci manuscripts in facsimile; steam locomotive collection of test data; NASA reports; U.S. Bureau of Mines and U.S. National Bureau of Standards publications.

PUBLICATIONS: Occasional proceedings, laboratory reports.

INFORMATION SERVICES: Permits onsite reference; provides duplication services for fee; makes interlibrary loans.

A connected computational center houses a PDP10 computer system.

D. M. STEWARD MANUFACTURING CO.

2214 P.O. Box 510
Chattanooga, Tenn. 37401

Location:

36th and Jerome Sts.
Chattanooga, Tenn.
Tel: (615) 624-9055

AREAS OF INTEREST: Technical ceramics, particularly those used in magnetic applications, electrical insulation applications, and dielectric applications.

HOLDINGS: Books, periodicals, booklets.

INFORMATION SERVICES: Answers brief inquiries; provides consulting services for fee; permits onsite use of literature collection.

STONE AND WEBSTER ENGINEERING CORP.

Technical Library

2215 Stone and Webster Engineering Corp.
225 Franklin St.
Boston, Mass. 02107
Tel: (617) 434-5177

AREAS OF INTEREST: Engineering, including mechanical, chemical, electrical, civil, structural, nuclear, environmental, and architectural; power generation and transmission, including nuclear, fossil fuel, and hydroelectric; chemical, petroleum, and petrochemical processing; geology and soils mechanics; natural and manufactured gas processing and transmission; pulp and paper processing and manufacture; water desalination.

HOLDINGS: Substantial collections of books, periodicals, reports, standards, and related literature.

PUBLICATIONS: Union list of serial and journal holdings (semiannual, available to other cooperating libraries on request).

INFORMATION SERVICES: Makes interlibrary loans of nonrestricted materials. Onsite use of the collections by nonclients is evaluated on an individual basis.

STRATEGIC TECHNOLOGY OFFICE INFORMATION ANALYSIS CENTER

see Battelle Memorial Institute

STRAWBRIDGE OBSERVATORY

see Haverford College

STRUCTURAL CLAY PRODUCTS INSTITUTE

2216 1750 Old Meadow Rd.
McLean, Va. 22101
Tel: (703) 893-4010

AREAS OF INTEREST: End-use research in clay masonry, including investigation of its structural properties and use in engineered brick masonry; engineering, including consulting and inspection services; bricklaying, including apprentice and vocational training in bricklaying.

HOLDINGS: 1,000 books; 100 periodical titles; 1,000 reports; films, slides, pamphlets, reprints.

PUBLICATIONS: *Research Reports*; *Technical Notes on Brick & Tile Construction* (12 a year); books, directories, specifications, films, slides, pamphlets, reprints.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite use of literature collection. Services are available only to Institute members, architects, engineers, and other persons actively engaged in building construction.

STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA

2217 171 Second St.
San Francisco, Calif. 94105
Tel: (415) 362-1721

This Association is composed of delegates of four associations in which individuals hold individual memberships: Structural Engineers Association of Northern California (San Francisco); Structural Engineers Association of Central California (Sacramento); Structural Engineers Association of Southern California (Los Angeles); and Structural Engineers Association of San Diego.

AREAS OF INTEREST: Structural engineering; effect of earthquakes on buildings; seismology; building design and materials; building code provisions.

HOLDINGS: Reports.

PUBLICATIONS: Technical reports, conference proceedings.

INFORMATION SERVICES: Answers inquiries; makes referrals.

STRUCTURAL ENGINEERS ASSOCIATION OF SOUTHERN CALIFORNIA

2218 2808 Temple St.
Los Angeles, Calif. 90026
Tel: (213) 385-4424

AREAS OF INTEREST: All phases of structural engineering; building design and materials, including steel concrete, aluminum, and plastics; seismology; effects of earthquakes on buildings.

HOLDINGS: Reports.

PUBLICATIONS: Monthly bulletin, annual report.

INFORMATION SERVICES: Answers inquiries; makes referrals.

SULPHUR INSTITUTE

2219 1725 K St. NW.
Washington, D.C. 20006
Tel: (202) 337-8660

AREAS OF INTEREST: Sulphur; chemistry; engineering; agronomy; soil science; animal nutrition; fertilizer technology.

HOLDINGS: 500 books; 2,200 journals; 500 reports; 2,400 patents; 13,000 published documents; films, photos, data.

PUBLICATIONS: *Sulphur Institute Journal* (quarterly); technical bulletins, brochures.

INFORMATION SERVICES: Provides reference services; permits onsite use of collection.

SUPERINTENDENT OF DOCUMENTS

see Government Printing Office

SURFACE PROCESSES CORP.

2220 Country Club Rd.
Dallas, Pa. 18612
Tel: (717) 675-1131

AREAS OF INTEREST: Surface chemistry and physics; electrostatic and magnetographic copying and duplicating.

HOLDINGS: 750 books; several hundred technical reports; 12 monthly periodical subscriptions; abstracts, reprints, pamphlets, patents, annual reviews.

INFORMATION SERVICES: Answers brief inquiries; provides consulting services for fee; permits onsite use of collection.

SURVIVAL AND FLIGHT EQUIPMENT ASSOCIATION

2221 7754 Densmore Ave.
Van Nuys, Calif. 91406
Tel: (213) 782-2875

AREAS OF INTEREST: Aerospace and hydrospace rescue and survival equipment; military, commercial, and private aircraft survival education, training, and product development.

HOLDINGS: Military and civilian survival equipment; 1,400 technical reports; newsletters, abstracts, indexes, posters.

PUBLICATIONS: Bimonthly journal, proceedings of annual symposium, newsletters, articles.

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes referrals; provides speakers for survival equipment meetings and seminars; permits onsite reference.

SWARTHMORE COLLEGE

Sproul Observatory

2222 Swarthmore College
Swarthmore, Pa. 19081
Tel: (215) 544-7900

AREAS OF INTEREST: Photographic astrometry (double stars, parallax, proper motion, orbital motion).

HOLDINGS: Telescope, measuring and calculating machines, data, slides, maps, charts, project records, graphs, tables, technical reports, reviews, books, periodicals, abstracts, newsletters, reprints, publication lists, bibliographies, booklets, clippings.

PUBLICATIONS: Reprints.

INFORMATION SERVICES: Answers brief inquiries; provides consulting services; makes referrals; permits onsite use of literature collection. The Observatory is open to visitors on certain nights.

SWINDELL-DRESSLER CO. TECHNICAL LIBRARY

2223 441 Smithfield St.
Pittsburgh, Pa. 15222
Tel: (412) 391-4800

AREAS OF INTEREST: Highway engineering; ceramic kilns; metallurgical plants and furnaces; public works; hydraulic structures; urban redevelopment; institutional buildings; water treatment plants; sewage and waste treatment plants; production facilities.

HOLDINGS: 450 books; 550 abstracts; 100 periodicals; 100 technical reports; 100 standards and specifications; 60 rolls of microfilm containing chemical data; 300 preprints and reprints; 150 pamphlets.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting and translating services; provides technical data on the ceramic industry; permits onsite reference.

SYLVANIA ELECTRIC PRODUCTS, INC.

Electronic Systems Division

Central Library

2224 Electronic Systems Division
Sylvania Electric Products, Inc.
1100 Wehrle Dr.
Buffalo, N.Y. 14221
Tel: (716) 633-8300

AREAS OF INTEREST: Atmospheric sciences; communications; detection; electronics; space sciences; materials; environmental sciences; military operations; mathematics; navigation; personnel and training; operations research; physics; management; human engineering; computers; information retrieval; technical writing; statistics; aeronautics; electrical engineering.

HOLDINGS: 4,000 books; 175 periodical titles; 30,750 reports; maps and charts.

PUBLICATIONS: Accessions list (weekly); bibliography.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans of unclassified material (books, journals, and unclassified, unlimited reports).

Sylvania Electronic Systems Eastern Division

Main Library

2225 Sylvania Electronic Systems Eastern Division
Sylvania Electric Products, Inc.
Building 5-R
77 "A" St.
Needham Heights, Mass. 02194

Tel: (617) 449-2000

AREAS OF INTEREST: Aerospace; communications; detection and countermeasures; electrical and electronic engineering; guided missiles; mathematics and data processing; navigation and guidance; physics; integrated circuits; radios (military).

HOLDINGS: 17,000 books; 5,100 journals; 50,000 hardcopy reports; 150,000 reports on microfiche; 15,000 military specifications and standards; 2,000 Government publications.

INFORMATION SERVICES: Makes limited interlibrary loans to outside organizations; provides contract literature-searching services on fee basis.

Facilities include microfilm reader-printer, microfiche duplicating equipment, keypunches, 870 Document Writing System, IBM 360 computer microfiche viewers, and Western Union TELEX.

SYRACUSE UNIVERSITY

College of Forestry

see State University of New York

Mathematics Library

2226 Syracuse University
21 Smith Hall
Syracuse, N.Y. 13210
Tel: (315) 476-5541 Ext. 2092

AREAS OF INTEREST: Mathematics; history of mathematics; statistics; computers.

HOLDINGS: 10,000 books; 250 periodical titles; 3,500 bound periodicals; 1,000 research reports.

PUBLICATIONS: Acquisitions list (monthly).

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite use of collection, subject to approval of librarian. A photocopying machine is available.

Natural Sciences Library

2227 Syracuse University
407 Lyman Hall
Syracuse, N.Y. 13210
Tel: (315) 476-5541 Ext. 2160

AREAS OF INTEREST: Bacteriology; botany; zoology; geology; geography.

HOLDINGS: 43,000 books; 560 periodical titles; 78,000 map sheets.

PUBLICATIONS: Bibliographies.

INFORMATION SERVICES: Answers inquiries; provides reference services; makes interlibrary loans; permits onsite use of collection.

Facilities include a coin-operated microfilm reader.

Technical Resources Center

2228 University College
610 East Fayette St.
Syracuse, N.Y. 13202
Tel: (315) 476-5878

AREAS OF INTEREST: Technical and scientific information dissemination, including the exchange and transfer of technological information among business, education, and government in a seven-county area of Upstate New York; research and development activities of government and private industry.

HOLDINGS: Scientific and technical reference collection; technical reports, indexes, bibliographies, maps.

PUBLICATIONS: Annual report, brochures, proceedings, newsletter.

INFORMATION SERVICES: Makes referrals; provides reference and literature-searching services; conducts seminars, workshops, and conferences on current problems.

T&B CO.

2229 36 Butler St.
Elizabeth, N.J. 07207
Tel: (201) 354-4321

T&B Co. is a division of Thomas & Betts Corp.

AREAS OF INTEREST: Cable connectors for aluminum/copper cables; conduit supports and beam clamps; electrician's tools; fixture hangers; floor boxes, outlets, and accessories; ground fittings; raceway fittings to include aluminum conduit fittings; aluminum sheathed cable connectors; armored cable-flexible conduit connectors; E.M.T. (Thinwall) fittings; liquid-tight flexible conduit fittings; metal-clad cable fittings (interlocked armored cable); nonmetallic sheathed cable connectors; portable cord connectors; rigid conduit fittings; service entrance cable connectors; underground feeder cable connectors; nylon cable ties, clamps, and accessories; harness boards and accessories; wire terminals and connectors.

HOLDINGS: 20,000 clippings; periodicals, booklets, catalogs, brochures, leaflets, photos, patents, pamphlets, data sheets.

PUBLICATIONS: Quarterly and annual reports, brochures, catalogs, motion pictures.

INFORMATION SERVICES: Answers inquiries; permits onsite reference.

TACOMA PUBLIC LIBRARY

Business, Science and Technology Department

2230 Tacoma Public Library
1102 South Tacoma Ave.
Tacoma, Wash. 98402
Tel: (206) 383-1574

AREAS OF INTEREST: Wood and wood products technology; mathematics; astronomy; physics; natural science; engineering; industrial chemistry; metallurgy.

HOLDINGS: 15,000 books; standards and specifications of 75 organizations; 205 journal titles; 95 mathematical tables; pamphlets, abstracts, indexes, newsletters and trade literature, bibliographies; 600 directories; U.S. topographic and geological maps; 35,000 U.S. Government documents.

INFORMATION SERVICES: Makes interlibrary loans; makes direct loans to card holders; permits onsite reference.

TANNERS' COUNCIL OF AMERICA

2231 411 Fifth Ave.
New York, N.Y. 10016
Tel: (212) 686-7950

AREAS OF INTEREST: Hides; skins; leather; leather products, including shoes; basic organic research; manufacturing.

PUBLICATIONS: *Council News-Weekly*; *Annual Statistical Compilation*; reports, standards and specifications, dictionary.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and consulting services.

The Council's Research Laboratory is located at the University of Cincinnati, Cincinnati, Ohio.

TANNERS COUNCIL RESEARCH LABORATORY

see University of Cincinnati

TARGET SIGNATURE ANALYSIS CENTER

see University of Michigan

TECHNICAL ASSOCIATION OF THE PULP AND PAPER INDUSTRY

2232 360 Lexington Ave.
New York, N.Y. 10017
Tel: (212) 682-8313

AREAS OF INTEREST: Pulp manufacture; paper and paperboard manufacture; coating and graphic arts; engineering; testing; research and development; corrugated containers; air and water pollution.

PUBLICATIONS: *TAPPI* (monthly); *Bibliography of Papermaking and U.S. Patents* (annual).

INFORMATION SERVICES: Answers inquiries; makes referrals.

TECHNICAL INFORMATION CENTER OF PUERTO RICO

2233 College of Agriculture and Mechanic Arts
University of Puerto Rico
Mayaguez, Puerto Rico 00708
Tel: (809) 832-4040 Ext. 561, 562, 548, or 549

AREAS OF INTEREST: All areas of science and technology pertinent to the development of the Puerto Rican economy.

HOLDINGS: Journals, books, reports, periodicals.

PUBLICATIONS: *Newsletter* (quarterly); *Announcements* (monthly bulletin containing titles and descriptions of documents recently received by the Center); *Special Bulletin* (relating to specific industrial sectors or on special topics, published when pertinent information is available); directories, abstracts, bibliographies, reports.

INFORMATION SERVICES: Answers inquiries; provides advisory, reference, literature-searching, and abstracting services; makes referrals; permits onsite use of collection. Services are provided free to some users and at cost to others.

TEKTITE RESEARCH

see University of Texas at Austin

TELEDYNE, INC.

Teledyne ADCOM

2234 808 Memorial Dr.
Cambridge, Mass. 02139
Tel: (617) 868-1000

AREAS OF INTEREST: Research, development, and engineering in telecommunications, aerospace communications, radar and navigation, information management and data compression systems, communication systems and networks, advance signaling and signal-processing, reconnaissance systems and techniques, diversity systems, tracking systems, countermeasures, radio interference suppression, experimental modems, high speed A/D and D/A converters, analog and digital simulators, digital filters, data acquisition, and other digital processing subsystems.

HOLDINGS: 1,100 books; reports, standards, periodicals, abstracts, newspapers, preprints, reprints, bibliographies, technical memoranda.

INFORMATION SERVICES: Answers brief inquiries; provides consulting services on fee basis; provides brief bibliographic services; disseminates reprints, preprints, and technical memoranda free.

Facilities include completely equipped communications and data processing research and development laboratories and a computer input-output terminal linked with a PDP-10 computer.

Teledyne Materials Research

2235 303 Bear Hill Rd.
Waltham, Mass. 02154
Tel: (617) 899-3350

AREAS OF INTEREST: Stress analysis; metals technology, including metal fatigue; metallurgy; applied mechanics; failure and instability analysis; machine design; instrumentation system design.

HOLDINGS: 850 books; 900 periodicals; 7,000 reports; 100 standards and specifications; 4,400 preprints and reprints; graphs, tables, reviews, abstracts, indexes, newsletters, publication lists, clippings, measuring instruments.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services for fee; permits onsite reference.

TELEDYNE RYAN AERONAUTICAL

Technical Information Services

2236 Teledyne Ryan Aeronautical
2701 Harbor Dr.
San Diego, Calif. 92112
Tel: (714) 291-7311 Ext. 1067

AREAS OF INTEREST: Aerodynamic engineering, including the design and production of subsonic and supersonic drone air vehicles for targetry missions, and STOL and V/STOL aircraft, with emphasis on lift-fan and tilt-wing concepts; avionics packages for space vehicles and lunar modules, with emphasis on landing radar systems; electronics engineering, including antenna designs, power conversion, miniaturization, and electronic countermeasure and counter-countermeasure systems; avionics, including design and production of navigation, reconnaissance, and surveillance systems; materials characteristics and applications related to the production of air vehicles, particularly plastics, bonded structures, and advanced composites.

HOLDINGS: 5,000 books; 80 bound periodicals; 225 periodicals and newspapers; 50,000 scientific and technical reports; 25,000 specifications and standards; archive holdings of Ryan-generated reports.

PUBLICATIONS: *Monthly Technical Information Services Bulletin* (accession list and other library data).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services; lends materials. No onsite reference is permitted.

Facilities include two technical libraries at two locations.

TEMPIL DIVISION

see Big Three Industries

TENNESSEE AGRICULTURAL EXPERIMENT STATION

see University of Tennessee

TENNESSEE CORP.

Research and Development

2237 Tennessee Corp.
Drawer 8
Cranbury, N.J. 08512
Tel: (609) 655-1234

AREAS OF INTEREST: Agricultural chemicals; fertilizers; industrial chemicals; soils; general farming practices; mineralogy; mining and extractive metallurgy.

HOLDINGS: 5,000 books; 250 periodical titles.

INFORMATION SERVICES: Answers inquiries, except those of a proprietary or confidential nature; provides consulting and duplication services; makes referrals; lends materials; permits onsite use of literature collection by appointment.

TENNESSEE DEPARTMENT OF CONSERVATION

Division of Geology

2238 Tennessee Department of Conservation
G-5 State Office Bldg.
Nashville, Tenn. 37219
Tel: (615) 741-2726

AREAS OF INTEREST: Geology; mineral resources of Tennessee; aerial and subsurface mapping; geophysics; geochemistry.

PUBLICATIONS: Bulletins, reports, maps, charts, circulars. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides limited chemical analyses.

Division of Water Resources

2239 Tennessee Department of Conservation
2611 West End Ave.
Nashville, Tenn. 37203
Tel: (615) 741-2572

AREAS OF INTEREST: Water resource planning; stream gaging; water quantity; well drilling; water rights; water law.

HOLDINGS: Small library.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries within the limitations of staff time.

TENNESSEE DEPARTMENT OF PUBLIC HEALTH

Division of Stream Pollution Control

2240 Tennessee Department of Public Health
621 Cordell Hull Bldg.
Nashville, Tenn. 37219
Tel: (615) 741-2275

AREAS OF INTEREST: Stream pollution; underground water pollution; water quality; sewage treatment; industrial waste treatment.

HOLDINGS: Books, reports.

PUBLICATIONS: Reports on pollution control and water quality of streams in the State (available free).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides testing services related to water pollution control programs in Tennessee.

TENNESSEE-TOMBIGBEE WATERWAY DEVELOPMENT AUTHORITY

2241 P.O. Drawer 671
Columbus, Miss. 39701
Tel: (601) 328-3286

AREAS OF INTEREST: Inland waterways and their role in the economic development of Alabama, Mississippi, Tennessee, Kentucky, and Florida. The Authority is specifically responsible for efforts to connect the north-flowing Tennessee River near Pickwick Landing, Tenn., with the south-flowing Warrior-Tombigbee system at Demopolis, Ala., via a proposed 253-mile water route through northeastern Mississippi and western Alabama.

HOLDINGS: 200 books; 40 reports; 500 pamphlets; maps, charts, films, photos, slides.

PUBLICATIONS: *Tenn-Tom Topics* (quarterly); news releases, newsletters, pamphlets.

INFORMATION SERVICES: Answers inquiries regarding development of the proposed waterway, including its technical, economic, and political aspects; provides speakers on the project to interested groups.

TENNESSEE VALLEY AUTHORITY

Director of Information

2242 Tennessee Valley Authority
New Sprankle Bldg.
Knoxville, Tenn. 37902
Tel: (615) 522-7181

AREAS OF INTEREST: Tennessee Valley resource development, industrial development, regional planning, forest management and utilization, agricultural and forest economics, agronomy, and geology; navigation, freight transportation, and water resources; electric power production, power distribution, management, and sales; flood control, hydraulics, hydrology, and meteorology; chemistry, soil chemistry, fertilizers, and fertilizer distribution and marketing; air and stream pollution, ecology, aquatic biology, reclamation, and nuclear pollution; engineering (civil, electrical, mechanical, chemical, nuclear); architecture, urban planning, and landscaping; recreation and recreational development; mathematics and computers.

PUBLICATIONS: *TVA Newsletter* (weekly); general information publications and films, technical reports and monographs, chemical engineering bulletins.

INFORMATION SERVICES: Answers inquiries; supplies films; makes referrals.

Division of Engineering Design, Management Services

Maps and Engineering Records

2243 Division of Engineering Design, Management Services
Tennessee Valley Authority
102-A Union Bldg.
Knoxville, Tenn. 37902
Tel: (615) 522-7181 Ext. 2675

AREAS OF INTEREST: Hydroelectric, nuclear, and coal-fired steam electric projects; water control, navigation, and tributary area development projects; office, service, and recreational facilities; miscellaneous projects (planning, design, construction).

HOLDINGS: 104,100 photos; 1,004,000 microfilm images on roll film or aperture cards; 23,000 maps; 339,000 engineering drawings; 1,050,000 punched cards; 1,125,000 project records; 3,850,000 data analyses and compilations.

PUBLICATIONS: Maps, charts, architectural and engineering drawings, perspectives, descriptive folders. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides duplication services for fee; permits onsite reference, subject to security regulations.

Division of Environmental Research and Development

2244 Tennessee Valley Authority
720 Edney Bldg.
11th and Market Sts.
Chattanooga, Tenn. 37401
Tel: (615) 755-2002

AREAS OF INTEREST: Water and water research, including aquatic biology, reservoir ecology, control of aquatic weeds, eutrophication, limnology, phreatophyte control, water pollution, waste water disposal, water quality, water analysis, water chemistry, water economics, water microbiology, effects of impoundment on water quality, and thermal pollution; air and air research (related to coal-fired and nuclear steam-electric plants), including plume rise, stack height, plume dispersion, ground level concentration of stack emissions, environmental effects of stack emissions, meteorology, removal of sulphur from stack gas in usable form, control of sulphur oxide emissions, control of particulate emissions, air monitoring instrumentation, cooling tower emissions, air chemistry, and stack gas chemistry; solid waste research, including compost processing, utilization of compost, solid waste collection systems, and solid waste disposal; industrial and radiological hazards control; reservoir mosquito control.

HOLDINGS: Technical papers, research reports, and news releases related to water. A list of technical reprints is available.

INFORMATION SERVICES: Answers technical inquiries through correspondence, technical material, or discussion and consultation.

Division of Forestry, Fisheries, and Wildlife Development

2245 Tennessee Valley Authority
Norris, Tenn. 37828
Tel: (615) 522-7181 Ext. 2296

AREAS OF INTEREST: Aquatic biology; fish diseases; fishkills; wildlife management; acid mine drainage; watershed management; forest management; reforestation; tree improvement; hydrologic condition of forest soils; forest inventory; timber harvesting and utilization; strip mine reclamation.

HOLDINGS: An extensive forestry and wildlife reference library.

PUBLICATIONS: Fish inventories of TVA reservoirs; forestry, fisheries, and wildlife reports. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans; permits onsite reference.

Division of Navigation Development and Regional Studies

2246 Tennessee Valley Authority
500 Arnstein Bldg.

Knoxville, Tenn. 37902
Tel: (615) 522-7181 Ext. 2721

AREAS OF INTEREST: Engineering and economic aspects of navigation on the Tennessee River and its tributaries; impact of navigation on development of other resources; area and community planning and development; collection and analysis of regional economic conditions and trends.

PUBLICATIONS: *The Tennessee River Navigation System*; *River Traffic and Industrial Growth*; *Major Freight Terminals on the Tennessee River*; *Navigation and Economic Growth: Tennessee River Experience*; *Benefit-Cost Analysis for Water Resource Projects: A Selected Annotated Bibliography*; annual reports on barge traffic, navigation savings, and private industrial waterfront investment; related studies.

INFORMATION SERVICES: Answers inquiries; permits use of records by researchers.

Division of Water Control Planning

2247 Tennessee Valley Authority
448 Evans Bldg.
Knoxville, Tenn. 37902
Tel: (615) 522-7181 Ext. 2664

AREAS OF INTEREST: Water control and use in the Tennessee Valley; flood control; hydroelectric power; hydraulic engineering; irrigation; navigation; regulation of water quality; low-flow augmentation of water supplies; recreational use of water resources; droughts; evaporation; fluid mechanics; stream gaging; hydrology; hydrometeorology; water instrumentation; precipitation; rain and rainfall; reservoirs; rivers; runoff; sedimentation; snow; storms; water data telemetry; water conservation; water cycle; water economics; water measurement; water quality; water resources information systems; management; planning; watersheds.

PUBLICATIONS: Reports, pamphlets.

INFORMATION SERVICES: Answers inquiries; permits use of records by researchers.

Maps and Surveys Branch

Map Information and Records Unit

2248 Maps and Surveys Branch
Tennessee Valley Authority
200 Haney Bldg.
Chattanooga, Tenn. 37401
Tel: (615) 755-2122

AREAS OF INTEREST: Surveying and mapping of the TVA region (cadastral and topographic mapping, utility location, control, layout, channel improvement); navigation and flood control surveys and investigations.

HOLDINGS: Map compilation materials and survey control data, including 900,000 cadastral, planimetric, and topographic maps and navigation charts, and 160,000 aerial photographs.

PUBLICATIONS: *Topographic Map Reproductions Available* (quarterly); *Price Catalog of Selected Maps and Data Available*; map and chart indexes.

INFORMATION SERVICES: Most of the collection is accessible for onsite use. The remainder is stored in the Federal Records Center in Atlanta, Ga., and can be retrieved in 12 to 48 hours. Requests for maps and data not available are referred to other sources. The Unit provides reproduction services, evaluation of materials in the collection, and consulting services on regional problems involving topography, geography, map availability, and survey information.

Office of Agricultural and Chemical Development

2249 Tennessee Valley Authority
National Fertilizer Development Center
Muscle Shoals, Ala. 35660
Tel: (205) 383-4631

AREAS OF INTEREST: All phases of fertilizer research, development, and use, including laboratory studies of thermodynamics and structures of fertilizer compounds and related chemicals; kinetics of chemical reactions related to preparation of fertilizers; chemical and engineering research to devise, develop, and evaluate new manufacturing processes (in laboratory, pilot, and demonstration-scale units); studies of soil-plant-fertilizer relationships and evaluations of experimental products in greenhouses and field plots; preparation of fertilizers containing radioisotopes; fertilizer distribution and marketing systems; and problems of special interest to developing nations.

HOLDINGS: Extensive fertilizer library, including 600 journals.

PUBLICATIONS: *Fertilizer Abstracts* covering world fertilizer literature (monthly, on subscription basis); technical reports on research, reprints of technical articles. A list of reprints is available.

INFORMATION SERVICES: Answers technical inquiries by correspondence, by supplying technical material, and through discussion and consultation.

Office of Engineering Design and Construction

2250 Tennessee Valley Authority
607 Union Bldg.
Knoxville, Tenn. 37902
Tel: (615) 522-7181

AREAS OF INTEREST: Design, construction, and inspection of permanent engineering works and structures (excluding power transmission, distribution, and communication facilities and switchhouses not adjacent to generating stations); laboratory testing of concrete, soils, paints, and bituminous construction materials.

HOLDINGS: Approximately 14,000 TVA water control and steam-electric project reports (primarily for TVA use).

PUBLICATIONS: Technical reports and monographs on completed major TVA water control projects and steam-electric projects, including summaries of planning, design, construction, first operations, and costs; technical experience manuals. A list of publications is available.

INFORMATION SERVICES: Answers inquiries relating to TVA water control projects and steam-electric projects; provides general information on all phases of the TVA program to official visitors; provides specific information on its engineering works.

Office of Power

2251 Tennessee Valley Authority
Power Bldg.
Chattanooga, Tenn. 37401
Tel: (615) 755-2864

AREAS OF INTEREST: Engineering, design, construction, operation, and maintenance of a large electric system; power generation at dams and at both fossil-fired and nuclear steamplants; system planning, reliability, interconnection, and communications; power-oriented research and computer use; economic study of power sources and rates; water sources for hydroelectric and steam-electric generation; air and water quality control; esthetics of power facilities; strip mine reclamation; rain and runoff; reservoir storage; sedimentation; waterflow measurements; treatment of water for boiler use; corrosion; hydraulics; evaporation; evapotranspiration; droughts; hydrometeorology; ground water; ground-water recharge.

PUBLICATIONS: Reports, descriptive folders.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Technical Library

2252 Tennessee Valley Authority
500 Union Ave. SW.
Knoxville, Tenn. 37902
Tel: (615) 522-7181

AREAS OF INTEREST: Tennessee Valley resources development; flood control; stream and air pollution control; navigation; electric power; forest management and utilization; agricultural and forest economics; mathematics and computers; fertilizers; agronomy; soil chemistry; aquatic biology; engineering (civil, electrical, mechanical, chemical, nuclear); hydraulics; hydrology; geology; architecture; meteorology.

HOLDINGS: 70,000 books, 1,400 journal and periodical titles, 2,200 reports, 30,000 pamphlets, and 30,000 Government documents, including much historical material on the Tennessee River region and development of its resources. (The Library is the official depository for most reports and studies originating in the TVA.) There is a clipping file of 400,000 items, which gives a complete day-by-day history of the TVA.

PUBLICATIONS: Acquisitions lists, indexes, and bibliographies, including three annual bibliographies: *Indexed Bibliography of the Tennessee Valley Authority*; *TVA Program Bibliography*; and *Flood Damage Prevention, An Indexed Bibliography*. *Fertilizer Abstracts* is prepared and published monthly by the Technical Library at Muscle Shoals, Ala.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference. Library services are also available from the two branch libraries, located as follows:

Muscle Shoals, Ala. 35661
Tel: (205) 383-4631

Chattanooga, Tenn. 37401
Tel: (615) 265-3551

TENSITRON, INC.

2253 P.O. Box 185
Harvard, Mass. 01451

Location:

Pin Hill
Harvard, Mass.
Tel: (617) 456-3511

AREAS OF INTEREST: Measurement, recording, and control of dynamic tensions and torque in wires, cables, yarns, cords, parachute lines, magnetic tape, paper, plastics, and any other filamentous, tape-like, or sheet-like materials; geophysical instrumentation; gravity; seismography; low-force load cells; transducers; signal conditioners; galvanometer-recorders.

HOLDINGS: Books, journals, periodicals, industrial literature, data, Government reports, patents; special collection of material in the field of tension engineering; special data in the field of gravitation and allied phenomena.

PUBLICATIONS: State-of-the-art reviews, reports, professional papers.

INFORMATION SERVICES: Answers inquiries; provides consulting, literature-searching, and translating services for fee; permits onsite use of collection by request; lends materials; gives lectures.

Facilities include a complete service for testing and calibrating tension meters and other devices connected with physical tension and advanced instrumentation in the field of gravitation and allied phenomena.

TEXAS A&M UNIVERSITY

Activation Analysis Research Laboratory

2254 Texas A&M University
College Station, Tex. 77843
Tel: (713) 846-3766

AREAS OF INTEREST: Nuclear activation analysis using multi-energy neutrons and charged particles; related automated systems and computer programs; detector and systems research; 14 MeV small systems.

HOLDINGS: 450 slides; 3,500 reports; bibliography on nuclear activation analysis; complete catalog of high resolution gamma-ray spectra (obtained with Ge(Li) detectors) for all analytically useful radioisotopes produced in a nuclear reactor.

PUBLICATIONS: *Annual Reports on Activation Analysis* (1959-1966); *Proceedings, 1961 and 1965 International Conferences on Modern Trends in Activation Analysis*; *Gamma-Ray Spectra and Sensitivities for 14 MeV Neutron Activation Analysis*; papers in scientific journals.

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes referrals; performs research and analysis by nuclear activation analysis.

Data Processing Center

2255 Texas A&M University
College Station, Tex. 77843
Tel: (713) 845-4211

AREAS OF INTEREST: Data processing; information retrieval.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

Facilities include an IBM 360/65 computer system.

Engineering Experiment Station

2256 Texas A&M University
College Station, Tex. 77843
Tel: (713) 845-6431

AREAS OF INTEREST: Research and development in all major phases of engineering.

INFORMATION SERVICES: Answers brief inquiries; conducts studies on most engineering problems under contract or grant.

Institute of Statistics

2257 Texas A&M University
College Station, Tex. 77843
Tel: (713) 845-3141

AREAS OF INTEREST: Research and education in statistical methodology and theory; operations research; numerical analysis.

HOLDINGS: Tapes, punched cards, data from on-campus research, documents disseminated by Federal agencies.

PUBLICATIONS: Faculty publication reprint series, annual report, departmental brochure.

INFORMATION SERVICES: Provides consulting and analytical services to Federal agencies.

Texas Agricultural Experiment Station

2258 Texas A&M University
College Station, Tex. 77843
Tel: (713) 846-8861

AREAS OF INTEREST: General agriculture; agricultural economics; home economics; sociology; agricultural engineering; animal science; biophysics; biochemistry; nutrition; molecular biology; dairy production; food technology; poultry science; entomology; plant physiology; plant pathology; genetics; range sciences; forestry; soil science; crop science; veterinary sciences; economic zoology; physiology and biochemistry of cotton.

PUBLICATIONS: *Texas Agricultural Progress* (quarterly); technical reports, bulletins, proceedings.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; makes printed materials available without charge.

Thermodynamics Research Center (TRC)

2259 Texas A&M University
College Station, Tex. 77843
Tel: (713) 846-8765

AREAS OF INTEREST: Physical, thermodynamic, and spectral (infrared, ultraviolet, Raman, mass, nuclear magnetic resonance) properties of chemical compounds, including hydrocarbons and sulfur and nitrogen derivatives of hydrocarbons, of interest to the petroleum and chemical industries.

HOLDINGS: A specialized library of data acquisitions (2,800 volumes).

PUBLICATIONS: Looseleaf data sheets, issued semiannually, supplementing existing tables of selected physical and thermodynamic property data and catalogs of selected spectroscopic data; state-of-the-art reviews and bibliographies; annual Substance-Property Index and Bibliography for the yearly *IUPAC Bulletin of Thermodynamics and Thermochemistry* (E. F. Westrum, Editor); comprehensive technical reports and monographs on thermodynamic data of closely related groups and classes of organic compounds. Publications are available on the basis of direct sales and subscriptions from the TRC Data Distribution Office, Texas A&M University, College Station, Tex. 77843.

INFORMATION SERVICES: Provides substantive replies to technical inquiries regarding the methods of data analysis, correlation, and selection; makes referrals; provides reference and consulting services on fee basis. The Center distributes looseleaf data sheets to educational institutions and Government research laboratories on payment of a handling charge; others may purchase the sheets, but in complete sets only. The following sets are available: Tables of Physical and Thermodynamic Properties; Infrared Spectral Data; Ultraviolet Spectral Data; Raman Spectral Data; Mass Spectral Data; and Nuclear Magnetic Resonance Spectral Data.

Facilities include an IBM S360/65 computer.

University Library

2260 Texas A&M University
College Station, Tex. 77843
Tel: (713) 845-6111 (Administrative Office)
(713) 845-1451 (Science and
Technology Division)

AREAS OF INTEREST: All fields of engineering, including nuclear; pure sciences and applied technology; all fields of agriculture; veterinary medicine; chemistry; computer science; business administration; architecture; city planning; military science; humanities; social sciences; transportation; hydrology.

HOLDINGS: 610,000 volumes; 275,000 microforms, including microcards, microfiche, and microfilm; 10,000 currently received serial titles; 50,000 technical reports; newspapers, theses, dissertations, reviews, abstracts and indexes. The Library is a depository for U.S. Atomic Energy Commission documents and is a selective depository for other Government publications.

INFORMATION SERVICES: Makes interlibrary loans; provides limited bibliographic services; permits onsite reference; lends materials to visiting scholars with credentials.

Water Resources Institute

2261 Texas A&M University
College Station, Tex. 77843
Tel: (713) 845-1851

AREAS OF INTEREST: Water resources, including: water quality; water treatment; water pollution; aquatic biology; limnology; water supply; water resources economics; water recreation; irrigation economics; erosion and erosion control; sedimentation; evaporation and evapotranspiration; evaporation suppression; ground-water hydrology and well recharge; stochastic hydrology; watershed hydrology; hydrogeology; hydrometeorology; ground-water pollution; rainfall; runoff; soil and plant water relations; water conservation; watershed management; urban hydrology; chemical and physical properties of water; saline water conversion; water institutions and organizations; and systems analysis and optimization techniques in water planning.

HOLDINGS: Journals, abstracts, reprints, slides, publication lists, pamphlets, brochures.

PUBLICATIONS: A Technical Report series. Other research results are published in special reports, progress reports, and professional journals. A list of publications and projects is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite use of collection.

TEXAS AGRICULTURAL EXPERIMENT STATION

see Texas A&M University

TEXAS ATOMIC ENERGY RESEARCH FOUNDATION

2262 Box 970
Fort Worth, Tex. 76101

Location:

7th and Lamar Sts.
Fort Worth, Tex.
Tel: (817) 336-9411

AREAS OF INTEREST: Thermonuclear reactions; plasma physics; nuclear physics.

HOLDINGS: Books, reports, films, photos.

PUBLICATIONS: Reports, state-of-the-art review.

INFORMATION SERVICES: Answers inquiries; provides reference and minor consulting services.

TEXAS FOREST PRODUCTS LABORATORY

2263 P.O. Box 310
Lufkin, Tex. 75901
Tel: (713) 634-5214

AREAS OF INTEREST: All aspects of wood use, including production, processing methods, deterioration, development of new products, analysis of wood market potentials, and the planning of new wood-using industries; wood preservatives; wood drying; physical, mechanical, and biological properties of wood.

HOLDINGS: 5,100 wood samples; 2,700 photos; 500 books; reports, standards and specifications, periodicals, abstracts, indexes, bibliographies.

PUBLICATIONS: Various types (all irregular).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and bibliographic services; performs physical and biological testing of wood and wood products; permits onsite reference.

TEXAS INSTRUMENTS INCORPORATED

Corporate Technical Information Center

2264 Corporate Technical Information Center, MS-142
Texas Instruments Incorporated
P.O. Box 5936
Dallas, Tex. 75222

Location:

13500 North Central Expressway
Dallas, Tex.
Tel: (214) 238-2406

AREAS OF INTEREST: Electronics, electronic systems, and components; solid state physics and chemistry; solid state devices; semiconductor materials (integrated circuits); electro-optical instruments; earth and space sciences (geophysical surveys); biomedical instrumentation; computers and peripheral equipment.

HOLDINGS: 45,000 books; 1,020 periodical subscriptions; 9,000 bound journals; over 100,000 reports; over 100,000 computer subject index-catalog cards; theses, translations, miscellaneous publications.

PUBLICATIONS: Library bulletin, periodical holdings information, bibliography, directory, books.

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans of books and journals; permits onsite use of collection by prior arrangement.

Library (Attleboro, Mass.)

2265 Library, MS 10-4
Texas Instruments Incorporated
Attleboro, Mass. 02703

Location:

34 Forest St.
Attleboro, Mass.
Tel: (617) 222-2800 Ext. 7354

AREAS OF INTEREST: Electrochemistry; electronics; metallurgy and materials; solid state physics; chemistry; ceramics; plastics.

HOLDINGS: 4,000 books; 250 journal titles; 20,000 reports.

PUBLICATIONS: Journals.

INFORMATION SERVICES: Answers inquiries; provides consulting and bibliographic services; makes interlibrary loans.

307-718 O-LT - 71 - 35

TEXAS MOTOR TRANSPORTATION ASSOCIATION

2266 P.O. Box 1669
Austin, Tex. 78767

Location:
406 East 11th St.
Austin, Tex.
Tel: (512) 478-2541

AREAS OF INTEREST: Truck and bus industry.

HOLDINGS: 15,000 pamphlets.

PUBLICATIONS: *Steering Wheel* (monthly).

INFORMATION SERVICES: Answers inquiries concerning commercial motor transportation affecting Texas.

TEXAS NUCLEAR DIVISION

2267 Nuclear Chicago Corp.
P.O. Box 9267, Northwest Station
Austin, Tex. 78757
Tel: (512) 836-0801

AREAS OF INTEREST: Physics; nuclear physics; radiation effects; radiation dosimetry; instrumentation (radiation measuring); irradiation; biophysics; electronics; data reduction.

HOLDINGS: Books, journals, reports, patents, data.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Provides consulting services; permits onsite reference.

TEXAS PETROLEUM RESEARCH COMMITTEE

2268 The Committee has two divisions:

Texas A&M University Division
W. T. Doherty Petroleum Engineering Bldg.
College Station, Tex. 77803
Tel: (713) 846-5314

University of Texas Division
Petroleum Bldg.
Austin, Tex. 78712
Tel: (512) 471-7247

AREAS OF INTEREST: Petroleum; geology.

HOLDINGS: 13,500 reports; periodicals, books, abstracts, Government reports, industrial literature, data.

PUBLICATIONS: *Annual Oil Recovery Conference Proceedings*; research reports, bibliographies.

INFORMATION SERVICES: Provides reference, literature-searching, and consulting services; permits onsite reference by approval of the Director.

TEXAS SOIL AND WATER CONSERVATION BOARD

2269 1018 First National Bank Bldg.
Temple, Tex. 76501
Tel: (817) 773-2250

AREAS OF INTEREST: Small watershed and flood prevention programs carried out by the soil and water conservation districts in cooperation with other political subdivisions in the State.

PUBLICATIONS: Bimonthly newsletter, biennial report.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

TEXAS TECH UNIVERSITY

International Center for Arid and Semi-Arid Land Studies

2270 P.O. Box 4620
Lubbock, Tex. 79409
Tel: (806) 742-6140

AREAS OF INTEREST: Arid and semi-arid lands technology, history, sociology, art, people, etc.

HOLDINGS: A small collection of books, periodicals, and reports. A complete file on arid lands technologists is in preparation.

PUBLICATIONS: *Arid Lands Research Institutions--A World Directory*; newsletter (quarterly); books, reports.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services. A fee may be charged for services, depending on the nature of the request.

Textile Research Center

2271 Texas Tech University
Box 4150
Lubbock, Tex. 79409
Tel: (806) 742-1296

AREAS OF INTEREST: Mechanical processing, structure fabrication, chemical finishing, physical measurement, and physiology and biochemistry of cotton, wool, mohair, and manmade fibers.

HOLDINGS: Books, journals, research reports, data, charts, films.

INFORMATION SERVICES: Provides reference and consulting services; permits onsite use of collection.

University Library

2272 Texas Tech University
Lubbock, Tex. 79409
Tel: (806) 742-2265

AREAS OF INTEREST: Chemistry; physics; geosciences; biology; engineering; social sciences; psychology; languages; home economics; business administration; agriculture.

HOLDINGS: 597,522 books and bound periodicals; 417,804 documents; 106,140 microforms.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite reference by request.

Water Resources Center

2273 Texas Tech University
Lubbock, Tex. 79409
Tel: (806) 742-1234

AREAS OF INTEREST: Interdisciplinary water resources research.

INFORMATION SERVICES: Answers inquiries.

TEXAS WATER DEVELOPMENT BOARD

2274 P.O. Box 13087
Austin, Tex. 78711

Location:
Texas Water Development Board Bldg.
301 West 2d St.
Austin, Tex.
Tel: (512) 475-3187

AREAS OF INTEREST: Comprehensive State water planning program; loan assistance to eligible political subdivisions to finance water development facilities; review of plans and specifications and inspection of construction for loan assistance projects; cost and economic analysis of alternative sources of water availability; development and application of advanced computerized simulation and optimization models in planning for the optimal development of the State's water resources; ground-water and surface-water hydrology; surface-water hydrography, runoff, evaporation, and sedimentation; water level measurements in wells and reservoirs; water use and water requirements for municipal, industrial, recreational, and agricultural uses; water use projections; flood control, navigation, and hurricane flood protection; administration of flood insurance program; design and cost of hydraulic structures and conveyance systems; pumpage and diversion rates; surface casing requirements; hydroelectric power generation; underground recharge of aquifers; weather modification; desalination of sea water and of saline or brackish ground and surface water; economics of desalination; return flow of used water (quantity and quality) and its effect on downstream use of water, including bays and estuaries; topographic mapping; centralized data bank for all historical and projected water related information.

HOLDINGS: A technical reference library of 24,000 books, reports, standards, and specifications, 290 journal titles, and other published materials; over 40,000 water well logs; multiple copies of over 4,500 different maps; 100,000 electric logs of oil and gas test wells; a data processing center utilizing an RCA 70/45G computer; 350 computer programs for both analysis and prediction of water related data; 1,069 reels of magnetic tape; a precipitation and stream gage file for the State since 1890; miscellaneous aerial photos; materials testing records; a substantial water law library collection.

PUBLICATIONS: *Texas Water Conditions* (monthly newsletter); series of *Reports* describing the Board's water resource investigations and model development activities; series of *Circulars* containing data summaries and publication lists; *Water Resources Planning Reports*; *Catalog of Water Oriented Data* (Volume 1 of 24 to be published as joint effort of 8 State agencies); *Biennial Report* to the governor and legislature; detailed program *Documentation* on the above-mentioned computer programs. A publications list is available. Single copies of *Reports* and most other publications are distributed free. Also distributed are publications of three former agencies: Board of Water Engineers, Texas Water Commission, and State Reclamation Department.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and limited interlibrary loan services; provides duplication services for fee; permits onsite reference.

TEXAS WATER QUALITY BOARD

2275 1108 Lavaca
Austin, Tex. 78701
Tel: (512) 475-2651

AREAS OF INTEREST: Water pollution in Texas, including water quality control of municipal, industrial, and recreational water supplies; control of waste discharge, treatment, and disposal; water quality at dams and reservoirs; water use; control of runoff into coastal basins and estuaries.

HOLDINGS: Water quality data on punched cards; evaluations of all waste discharges.

PUBLICATIONS: Biennial report, technical reports, water quality requirements.

INFORMATION SERVICES: Answers inquiries; assists in location of streams for waste discharge; provides consulting services to industry and municipalities.

TEXAS WATER RIGHTS COMMISSION

2276 P.O. Box 12396
Austin, Tex. 78711

Location:
201 East 14th St.
Sam Houston State Office Bldg.
Austin, Tex.
Tel: (512) 475-4514

The Commission investigates water resources and performs regulatory functions.

AREAS OF INTEREST: Water resources and hydrology; water supplies for municipalities, industries, irrigation, mining, and hydroelectric power; hydraulic design; geology; adjudication of water rights.

HOLDINGS: Topographic maps; project records of water use and inspections; standards and specifications.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite use of collection.

TEXAS WOMAN'S UNIVERSITY

Department of Chemistry

2277 Texas Woman's University
Box 23973, TWU Station
Denton, Tex. 76204
Tel: (817) 382-2990

AREAS OF INTEREST: All areas of chemistry, with special emphasis on radiation chemistry, including photochemistry and spectrometric techniques in chemistry.

HOLDINGS: 2,200 books; 204 periodical titles; 88 other serial publications.

INFORMATION SERVICES: Answers inquiries; provides consulting services (fees may be charged if supplies are consumed).

Facilities include research laboratory space in two buildings equipped with a neutron activation analysis system, nuclear magnetic resonance spectrometer, mass spectrometer, infrared spectrophotometers, uv-visible spectrophotometers, microwave spectrometer, emission spectrometers, Co-60 gamma-irradiator, atomic absorption spectrophotometer, gamma-ray spectrometers, polarimeters, gas chromatographs, and a glass shop.

TEXTILE RESEARCH INSTITUTE

2278 601 Prospect Ave.
Princeton, N.J. 08540
Tel: (609) 924-3150

AREAS OF INTEREST: Textile; polymers; fibers; physics; organic chemistry; econometrics.

HOLDINGS: 5,000 books; 120 specifications; 350 reprints; 100 reports; 160 periodicals.

PUBLICATIONS: *Textile Research Journal* (monthly); annual report, academic bulletin.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services; provides duplication services for fee; makes interlibrary loans; permits onsite reference.

TEXTRON INC.

Spencer Kellogg Division Library

2279 Textron Inc.
P.O. Box 210
Buffalo, N.Y. 14225

Location:
4201 Genesee St.
Buffalo, N.Y.
Tel: (716) 852-5850

AREAS OF INTEREST: Protective coatings; resins; polyurethanes; chemical products; linseed oil; castor oil; corn milling products.

HOLDINGS: Books, manuals, periodicals, reports, patents, data, microfilm.

INFORMATION SERVICES: Provides reference services to local technical libraries or other organizations;

permits onsite reference by special permission; makes interlibrary loans.

THERMODYNAMIC PROPERTIES OF METALS AND ALLOYS

see University of California, Berkeley. Lawrence Radiation Laboratory

THERMOPHYSICAL PROPERTIES RESEARCH CENTER

see Purdue University

C. W. THORNTHWAITE ASSOCIATES LABORATORY OF CLIMATOLOGY

2280 Rural Delivery 1
Elmer, N.J. 08318

Location:
Centerton
Elmer, N.J.
Tel: (609) 358-2350

AREAS OF INTEREST: Climatology; microclimatology; agricultural climatology; turbulence; heat and water balance; meteorological instruments; air and water pollution; purification of industrially polluted water.

HOLDINGS: 2,500 books; 70 periodical titles; 16,000 reprints; maps, charts, data.

PUBLICATIONS: 3 or more reports in *Publications in Climatology* series each year. A price list is available.

INFORMATION SERVICES: Answers inquiries; permits limited onsite use of collection by request.

3M CO.

3M Technical Library

2281 P.O. Box 3101
St. Paul, Minn. 55101
Tel: (612) 733-2439

AREAS OF INTEREST: Science and technology, especially organic, inorganic, and polymer chemistry; biomedicine; corporate and product information; patents.

HOLDINGS: 20,000 books; 900 periodicals; ACS, ASTM, TAPPI, and Electrochemical Society publications; United States and foreign patent journals, abstracts, and patents; journal translations; translated patents and articles; selected AD documents on microfiche.

PUBLICATIONS: *3M Company Library Services* (1967); *3M Technical Library Alert* (weekly acquisitions list); *3M Technical Library Emphasis* (periodically annotated book list); union list of periodicals in St. Paul area 3M libraries (1968).

INFORMATION SERVICES: Provides limited reference services.

Abrasives Library

2282 3M Co.
Building 2-3
900 Bush Ave.
St. Paul, Minn. 55101

AREAS OF INTEREST: All aspects of coated abrasives, including backing materials, adhesives, polymers, and minerals; organic, inorganic, and physical chemistry.

HOLDINGS: 4,000 books; 200 journals; reports, patents, data.

INFORMATION SERVICES: Answers written inquiries; provides duplication services; makes interlibrary loans.

TILE COUNCIL OF AMERICA RESEARCH CENTER

2283 P.O. Box 326
Princeton, N.J. 08540

Location:
U.S. Highway 1
Princeton, N.J.
Tel: (609) 921-7050

AREAS OF INTEREST: Methods and materials for installing ceramic tile.

HOLDINGS: Books, periodicals, reports, reviews, standards and specifications, charts, display materials, newsletters, bibliographies, pamphlets, publication lists, reprints, graphs and tables, films, photos, slides, data, samples of tile and mortars.

PUBLICATIONS: Specifications, pamphlets, bulletins, articles for trade magazines and newspapers.

INFORMATION SERVICES: Answers inquiries; provides consulting and literature-searching services; makes referrals.

TIME/DC, INC.

2284 Executive Bldg., Suite 505
2009 North 14th St.
Arlington, Va. 22201
Tel: (703) 524-6242

AREAS OF INTEREST: General transportation, packaging, and materials handling.

HOLDINGS: Technical reports, standards and specifications, books, project records, periodicals, photos, slides, microforms, maps, charts, posters and display materials, graphs, tables, reviews, abstracts and indexes, newsletters, reprints, data compilations, magnetic tapes, motion pictures, publication lists, pamphlets, press releases, clippings.

PUBLICATIONS: News releases, advertising material.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides literature-searching, bibliographic, and consulting services; prepares analyses and evaluations; permits limited onsite use of collection. A fee is charged for services requiring extended time of staff.

TIMKEN ROLLER BEARING CO.

Research Library

2285 Timken Roller Bearing Co.
1835 Dueber Ave. SW.
Canton, Ohio 44706
Tel: (216) 453-4511

AREAS OF INTEREST: Antifriction bearing technology, with special reference to tapered roller bearings; alloy seamless steel tubing, its manufacture, properties, and applications; electric furnace steelmaking; lubrication related to bearings.

HOLDINGS: Books, technical reports, standards and specifications, periodicals, abstracts, indexes, reprints, bibliographies, pamphlets, translations.

INFORMATION SERVICES: Answers inquiries; provides bibliographic and literature-searching services; permits onsite reference. All services are subject to available time on part of Library staff.

TIN RESEARCH INSTITUTE, INC.

2286 483 West 6th Ave.
Columbus, Ohio 43201
Tel: (614) 294-3341

AREAS OF INTEREST: Tin and tin alloys, including metallurgical and chemical aspects, research, and statistics.

HOLDINGS: 450 books; 40 periodical titles; 500 reports; data, films, photos.

PUBLICATIONS: *Tin and Its Uses* (quarterly); manuals, research reports, bibliographies, annual report.

INFORMATION SERVICES: Answers inquiries; provides reference, consulting, and limited literature-searching services; provides technical assistance at users' plants; presents lectures on uses of tin.

TIPPETTS-ABBETT-MCCARTHY-STRATTON

Engineering Library

2287 Tippetts-Abbett-McCarthy-Stratton
345 Park Ave.
New York, N.Y. 10022
Tel: (212) 755-2000 Ext. 255

AREAS OF INTEREST: All aspects of engineering and architecture.

HOLDINGS: 3,000 books; 10 vertical files of unevaluated data and data compilations; 2,000 technical reports; 300 standards and specifications; 100 periodicals; 400 pamphlets; publication lists.

INFORMATION SERVICES: Answers inquiries; provides consulting and translating services; makes referrals; prepares analyses and evaluations; permits onsite reference by request; lends some materials.

TIRE AND RIM ASSOCIATION

2288 Command Bldg.
34 North Hawkings Ave.
Akron, Ohio 44313
Tel: (216) 836-5553

AREAS OF INTEREST: Technical standards, primarily dimensional, for tires, tubes, valves, and flaps for passenger cars, motorcycles, trucks, buses, airplanes, and for earthmoving, roadbuilding, agricultural, and industrial vehicles.

PUBLICATIONS: Standards, yearbook.

INFORMATION SERVICES: Answers inquiries.

TIZON CHEMICAL CORP.

2289 Locktown Rd.
Flemington, N.J. 08822
Tel: (201) 782-4616

AREAS OF INTEREST: Zirconium chemistry; flaw-free finishing of silicon, sapphire, copper, and glass; piezoelectrics.

HOLDINGS: 120 books; journals, reports, patents.

INFORMATION SERVICES: Provides reference services; permits onsite use of collection by request.

TOLEDO-LUCAS COUNTY PUBLIC LIBRARY

Science and Technology Department

2290 Toledo-Lucas County Public Library
325 Michigan St.
Toledo, Ohio 43624
Tel: (419) 241-3133

AREAS OF INTEREST: Science; technology; glass; mathematics; astronomy; physics; chemistry; geology; engineering; chemical technology; mechanics; manufacturing; paleontology; biology; botany; zoology; medicine; agriculture; domestic economy; trades; building.

HOLDINGS: 55,000 books; 600 periodical titles; U.S. Geological Survey topographic maps; U.S. Patent Office patent numbers (listed by class of patent) on microfilm; U.S. patents; extensive collection on glass.

INFORMATION SERVICES: Answers inquiries; makes referrals; lends materials to library card holders; permits onsite reference; provides duplication services by coin operated vico-matic.

TRACE LEVEL RESEARCH INSTITUTE

see Purdue University

TRAILER COACH ASSOCIATION

2291 3855 East La Palma Ave.
Anaheim, Calif. 92806
Tel: (714) 630-1440

AREAS OF INTEREST: Modular and mobile homes, travel and camping trailers, motorhomes, pickup campers, and tops, minibuses, and related recreation products.

HOLDINGS: Books, reports.

PUBLICATIONS: News journal, technical reports, conference proceedings, data handbook, directory, pamphlets.

INFORMATION SERVICES: Provides reference and consulting services; makes referrals.

TRANS-SONICS, INC. LIBRARY

2292 P.O. Box 326
Lexington, Mass. 02173

Location:

Wheeler Rd.
Burlington, Mass.
Tel: (617) 272-1000

AREAS OF INTEREST: Pressure, temperature, and flow measuring devices and systems; pressure and temperature standards; liquid level indicating systems.

HOLDINGS: 3,780 reports; 5,000 standards and specifications; 880 books; 100 journals; 610 patents; 6,000 pamphlets; abstracts, indexes.

INFORMATION SERVICES: Answers brief inquiries for librarians in Boston area; makes interlibrary loans.

TRANSPORT OPERATIONS ANALYSIS SERVICE

2293 912 Park St. SE.
Vienna, Va. 22180

AREAS OF INTEREST: Statistics of transport in the United States; operational analysis of transportation at the total system, mode, carrier, and shipper levels.

HOLDINGS: Statistics of transport in the United States from nearly all sources; 1,000 reports.

PUBLICATIONS: *National Transport Data Index Subject List.*

INFORMATION SERVICES: Provides references to sources of statistics about U.S. transport; provides survey, consulting, and research services in the field of transportation; provides duplication services. All services are provided on a fee basis. Telephone inquiries are not accepted.

TRANSPORTATION ASSOCIATION OF AMERICA

2294 1101 17th St. NW.
Washington, D.C. 20036
Tel: (202) 296-2470

AREAS OF INTEREST: National transportation policies affecting carriers of all modes (air transport, freight forwarders, highway carriers, pipelines, railroads, water carriers), users, suppliers of transport equipment, and investors.

HOLDINGS: National transport policy positions, reports, charts, graphs, reviews, reference materials, etc.

PUBLICATIONS: *Transportation Facts & Trends* (annual, with quarterly supplements) showing basic statistical trends by modes in areas such as total transport outlays, investment, employment, traffic, etc.; *Transportation Research* (biennial) showing description of transport policy-type research under way and recently completed, plus list of top-priority transport research "gap" areas; *Transport Technological Trends* (annual, with periodic supplements) describing major developments in this area of transport and pointing out some national policy implications.

INFORMATION SERVICES: Answers inquiries from Association members, press, Government officials, and research groups.

TRANSPORTATION, DEPARTMENT OF

Coast Guard

Great Lakes Pilotage Staff

2295 Commander (dgp)
Ninth Coast Guard District
Federal Office Bldg.
1240 East 9th St.
Cleveland, Ohio 44199
Tel: (216) 522-3930

AREAS OF INTEREST: Regulated pilotage on the Great Lakes.

PUBLICATIONS: Great Lakes Pilotage Regulations and Rules and Orders (reissued upon extensive revision); chart describing the history and functions of the administration and operation of pilotage pools and radio communication facilities; The Great Lakes Pilotage Act; Memorandum of Arrangements between the United States and Canada; Statistical Report (annual).

INFORMATION SERVICES: Answers inquiries.

Office of Boating Safety

2296 U.S. Coast Guard
400 Seventh St. SW.
Washington, D.C. 20024
Tel: (202) 426-1088

AREAS OF INTEREST: Boating safety (regulations, equipment requirements).

PUBLICATIONS: Specifications, brochures.

INFORMATION SERVICES: Answers inquiries; provides advisory and consulting services to State and Federal law enforcement agencies.

Office of Engineering

2297 U.S. Coast Guard
400 Seventh St. SW.
Washington, D.C. 20024
Tel: (202) 426-1126

AREAS OF INTEREST: Marine aids to navigation, including buoys, icebreaking, fog signals, radio and microwave beacons, long-range electronic aids, lighted ranges, and retroreflective materials; offshore structures of concrete and steel; tall guyed towers for use as electronic radiators; search and rescue equipment and techniques, including fixed and rotary wing aircraft, special equipment for use in aircraft, and special-purpose ships and boats; oceanographic-survey and ocean-station vessels; underwater sound systems; fire-control systems.

PUBLICATIONS: *The Coast Guard Engineer's Digest* (quarterly); *Civil Engineering Reports*; *Electronic Engineering Station Project Reports*.

INFORMATION SERVICES: Information that concerns evaluations of commercial equipment and devices is restricted to Government agencies. Other information and publications are provided to research and educational institutions and to official agencies of maritime countries; personal requests are handled on an individual basis.

Office of Merchant Marine Safety

HAZARDOUS MATERIALS DIVISION

2298 Office of Merchant Marine Safety
U.S. Coast Guard
400 Seventh St. SW.
Washington, D.C. 20024
Tel: (202) 426-2306

AREAS OF INTEREST: Chemical engineering; safe water transport of chemicals; hazards of chemicals; water pollution from oil, cargo spillage, and sinkage; cargo handling.

PUBLICATIONS: *Chemical Data Guide for Bulk Shipment by Water* (*CG388*); regulations, circulars, technical notes.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Office of Operations

AIDS TO NAVIGATION DIVISION

2299 Office of Operations
U.S. Coast Guard
400 Seventh St. SW.
Washington, D.C. 20024
Tel: (202) 426-0980

AREAS OF INTEREST: Operation, maintenance, supply, and administration of a marine aids to navigation system that includes isolated and nonisolated manned and unmanned lights, buoys, sound signals, daybeacons, and electronic aids, such as radiobeacons and LORAN, together with remote monitoring and controlling equipments; administration of laws relating to the operation, clearances, and alterations of bridges over navigable waters of the United States; Federal regulations relating to private aids to navigation.

HOLDINGS: Small collection of books, periodicals, and reports.

PUBLICATIONS: *Light Lists*, describing all U.S. aids to navigation; *Local Notices to Mariners*; *Weekly Notices to Mariners*; informative pamphlets and booklets.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

COMMUNICATIONS STAFF

2300 Office of Operations
U.S. Coast Guard
400 Seventh St. SW.
Washington, D.C. 20024
Tel: (202) 426-1345

AREAS OF INTEREST: Telecommunications devices, procedures, and systems.

HOLDINGS: Small collection of books, periodicals, and reports.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services to other Government agencies.

LAW ENFORCEMENT DIVISION

2301 Office of Operations
U.S. Coast Guard
400 Seventh St. SW.
Washington, D.C. 20024
Tel: (202) 426-2007

AREAS OF INTEREST: Federal laws pertaining to fire protection of port facilities and water transportation of dangerous cargoes, including explosives, ammonium nitrate, and radioactive materials; pollution of navigable waters of the United States from both ships and shore facilities; effects of oil pollution and methods of cleaning up oil from water and shore; prevention and detection of violations of U.S. laws on the navigable waters and upon the high seas; development and administration of Coast Guard programs for discharge of United States obligations under treaties and international agreements.

HOLDINGS: Small collection of books and reports.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

MARINE SCIENCES DIVISION

2302 Office of Operations
U.S. Coast Guard
400 Seventh St. SW.
Washington, D.C. 20024
Tel: (202) 426-1894

AREAS OF INTEREST: Physical and chemical oceanography; geophysics; cooperative projects with other Federal agencies and with private, educational, and research institutions in biological and geological oceanography.

HOLDINGS: Small collection of books, periodicals, and reports.

PUBLICATIONS: Reports, specifications.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite use of collection.

SEARCH AND RESCUE DIVISION

2303 Office of Operations
U.S. Coast Guard
400 Seventh St. SW.
Washington, D.C. 20024
Tel: (202) 426-1948

AREAS OF INTEREST: Search and rescue operations.

HOLDINGS: Reports from Coast Guard units for each search and rescue mission in which the Coast Guard participated during the previous three years. In EDP format and in excess of 45,000 a year, the reports are filed by the name of the unit assisting in the search and rescue mission and the date of occurrence. Thus, to research a specific incident, it is necessary to know the name of the assisting unit or the date and location of the incident.

PUBLICATIONS: *National Search and Rescue Manual*; *Aircraft Emergency Procedures Over Water*.

INFORMATION SERVICES: The search and rescue records may be viewed onsite by appointment. For a fee, the agency will perform research and provide reproduction services limited to copies of specific search and rescue records.

Office of the Chief Medical Officer

2304 U.S. Coast Guard Headquarters
400 Seventh St. SW.
Washington, D.C. 20024
Tel: (202) 426-1094

AREAS OF INTEREST: Waste water treatment; prevention of untreated waste water discharges from Coast Guard vessels and shore installations on inland and coastal waters to avoid pollution; prevention of air pollution by Coast Guard vessels and shore installations.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Ship Structure Committee

2305 U.S. Coast Guard
400 Seventh St. SW.
Washington, D.C. 20024
Tel: (202) 426-2205

AREAS OF INTEREST: Measurement of ship stresses at sea; analysis of hull loadings; theoretical analysis of ship responses to loads; structural analysis of ships and barges; fracture mechanisms; brittle fracture; engineering fracture criteria; mechanical behavior of welds and weldments; weld test and evaluation.

PUBLICATIONS: *Ship Structure Committee Reports.*

INFORMATION SERVICES: Information generated by the Committee is disseminated without restriction to domestic and foreign agencies, information retrieval systems, and to individuals having a bona fide interest in the subject.

U.S. Coast Guard Academy Library

2306 New London, Conn. 06320
Tel: (203) 443-8463

AREAS OF INTEREST: Coast Guard history; water transportation; oceanography; piracy.

HOLDINGS: 80,000 books; 400 periodical titles. The Library is a depository for U.S. Government documents.

INFORMATION SERVICES: Answers inquiries; provides reference services. Services are primarily for cadets and faculty of the Academy, but limited services are provided to others when information is not available elsewhere.

Federal Aviation Administration

Air Traffic Service

2307 Federal Aviation Administration
800 Independence Ave. SW.
Washington, D.C. 20590
Tel: (202) 962-7777

AREAS OF INTEREST: Air traffic control (policies, regulations, standards, procedures); management of civil and military air traffic, air navigation and communication systems in the control and physical separation of air traffic, and control and allocation of airspace; establishment and administration of air traffic rules and air traffic control systems and devices.

INFORMATION SERVICES: Answers inquiries; makes referrals; furnishes cartographic and other flight information to those engaged in air traffic.

FLIGHT INFORMATION DIVISION

2308 Air Traffic Service
Federal Aviation Administration
800 Independence Ave. SW.
Washington, D.C. 20590
Tel: (202) 962-6261

AREAS OF INTEREST: Flight information, including cartographic data, symbols, tabular listings of airports, data on air navigation aids, air traffic control rules and procedures, and other information required for official charts, maps, handbooks, and notices.

HOLDINGS: Geographic, cartographic, and air traffic control data, maintained in the Division's National Flight Data Center.

PUBLICATIONS: *Airman's Information Manual.*

INFORMATION SERVICES: Answers inquiries; furnishes data from the data depository; provides production assistance to the Coast and Geodetic Survey (which publishes FAA-approved aeronautic charts) and to commercial publishers of flight information; coordinates civil and military flight information.

Airports Service

2309 Federal Aviation Administration
800 Independence Ave. SW.
Washington, D.C. 20590
Tel: (202) 962-0751

AREAS OF INTEREST: Administration of Airport Development Aid Program; standards for design, development, construction, operation, and maintenance of airports; international airport standards; airport ground safety equipment; economic and social factors affecting airport development; noise at airports; firefighting; birds as nuisance to air traffic; Federal land and property acquisition; visual aids to air navigation.

PUBLICATIONS: Advisory circulars and technical bulletins. The Service prepares (but does not publish) the *National Airport System Plan* (biannual).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides technical advice and assistance and matching Government funds for airport planning and development.

Bureau of National Capital Airports

ENGINEERING STAFF

2310 Bureau of National Capital Airports
Federal Aviation Administration
900 South Washington St.
Falls Church, Va. 22046
Tel: (703) 557-1136

AREAS OF INTEREST: Planning, design, and construction of large municipal and international airports; operation of Dulles International Airport and Washington National Airport.

INFORMATION SERVICES: Answers inquiries; exchanges views on airport engineering.

Flight Standards Service

2311 Federal Aviation Administration
800 Independence Ave. SW.
Washington, D.C. 20590
Tel: (202) 962-5903

AREAS OF INTEREST: Certification of airmen and aircraft; airmen training; flight procedures and air operations; aircraft engineering quality standards; avionics; aircraft management and maintenance; flight inspection; evaluation of in-flight facility performance; air accident investigations (in conjunction with the National Transportation Safety Board).

PUBLICATIONS: *Advisory Circulars* (nonregulatory information); *Federal Aviation Regulations* (published in the *Federal Register*); standards, directives, orders, notices, and handbooks for use of FAA personnel.

INFORMATION SERVICES: Answers inquiries; provides advice and guidance on problems related to aircraft engineering standards and airman training and experience.

Logistics Service

2312 Federal Aviation Administration
800 Independence Ave. SW.
Washington, D.C. 20590
Tel: (202) 962-6444

AREAS OF INTEREST: Air navigation, air traffic control, and communications facilities (installation); real and personal property, transportation materiel and services (procurement and management); supply system management.

INFORMATION SERVICES: Answers inquiries.

National Aviation Facilities Experimental Center

2313 Federal Aviation Administration
Atlantic City Airport
Atlantic City, N.J. 08405
Tel: (609) 641-8200 Ext. 3641

AREAS OF INTEREST: Aviation equipment; aerodynamics; air traffic control simulation; air communications; firefighting; system engineering; human engineering; computer data processing; instrument landing systems; airborne analog data recording equipment; radars for tracking, surveillance, and airport surface detection; airport and approach lighting; phototheodolite stations; VHF omnidirectional range and tactical air navigation.

PUBLICATIONS: Reports, pamphlets, news releases.

INFORMATION SERVICES: Answers inquiries.

Office of Aviation Medicine

AEROMEDICAL EDUCATION DIVISION

2314 Office of Aviation Medicine
Federal Aviation Administration
800 Independence Ave. SW.
Washington, D.C. 20590
Tel: (202) 962-5427

AREAS OF INTEREST: Aviation medicine, including aviation psychology, bioengineering, accident investigation, aeromedical standards, aeromedical education, occupational health, industrial hygiene engineering, and clinical research; environmental health; medical aspects of civil aviation safety; biometry and biostatistics in human factors evaluations; impact and acceleration stress.

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Answers inquiries.

Office of General Aviation Affairs

2315 Federal Aviation Administration
800 Independence Ave. SW.
Washington, D.C. 20590
Tel: (202) 962-5173

AREAS OF INTEREST: All aspects of civil aviation (except air carriers), including operations, maintenance, regulations, equipment standards, and aviation education.

INFORMATION SERVICES: Answers inquiries; makes referrals; conducts slide lectures and summer workshops for airmen, community leaders, and teachers.

Office of International Aviation Affairs

2316 Federal Aviation Administration
800 Independence Ave. SW.
Washington, D.C. 20590
Tel: (202) 962-0954

AREAS OF INTEREST: International aviation affairs, including aviation aspects of foreign policy; international aviation organizations, operations, policies, programs, transport, air navigation, and expositions; foreign aviation.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services and technical advice and assistance to foreign governments on air traffic control, airports, training of airmen, ground environment, and similar subjects.

Office of Management Systems

INFORMATION AND STATISTICS DIVISION

2317 Office of Management Systems
Federal Aviation Administration
800 Independence Ave. SW.
Washington, D.C. 20590
Tel: (202) 962-5441

AREAS OF INTEREST: Statistics relating to civil aircraft, airmen, and airports; measures of activity, type or kind of aircraft, age and type of pilots and airmen, and related statistics; some military activity data.

HOLDINGS: Reports.

PUBLICATIONS: *Air Traffic Patterns for IFR and VFR Aviation* (annual); *Airport Activity Statistics of Certificated Route Air Carriers* (semiannual); *Census of U.S. Civil Aircraft* (annual); *En Route IFR Air Traffic Survey* (annual); *FAA Air Traffic Activity* (semiannual); *FAA Statistical Handbook of Aviation* (annual); *Military Air Traffic Activity Report* (annual); *Scheduled Air Taxi Operators as of November 1968.*

INFORMATION SERVICES: Answers inquiries.

Office of Public Affairs

2318 Federal Aviation Administration
800 Independence Ave. SW.
Washington, D.C. 20590
Tel: (202) 962-5563

AREAS OF INTEREST: Public relations aspects of all segments of FAA.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and duplication services; disseminates brochures, bibliographies, photographs, charts, maps, and other publications.

Systems Maintenance Service

2319 Federal Aviation Administration
800 Independence Ave. SW.
Washington, D.C. 20590
Tel: (202) 962-6333

AREAS OF INTEREST: Maintenance engineering of air navigation, traffic control, and communications facilities, including such equipment as long-range radars and instrument landing systems.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Systems Research and Development Service

2320 Federal Aviation Administration
800 Independence Ave. SW.
Washington, D.C. 20590
Tel: (202) 962-7004

AREAS OF INTEREST: Research and development in air traffic control, air-ground communications, air navigation aids, including instrument landing systems and other electronic devices, aviation weather, and airport and facility support systems; specifications for equipment standards; improvement of safety standards associated with all aircraft and aircraft systems; criteria for improvements in the National Airspace System; radio frequency management of air navigation and communication channels.

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Federal Highway Administration

Associate Administrator for Research and Development

2321 Federal Highway Administration
U.S. Department of Transportation
400 Seventh St. SW.
Washington, D.C. 20591
Tel: (202) 426-0714

AREAS OF INTEREST: Highway engineering; highway construction and maintenance; highway structures; scale models of structures; materials engineering involving aggregates, bituminous materials and mixes, portland cement and asphaltic concretes, soils, and other materials; applied mechanics; pavement design and analysis; bridge design and analysis; embankments and foundations; mechanistic behavior of materials under stress; hydraulic and hydrological problems of highway drainage; dynamics of vehicular movement; traffic flow; accidents and safety; traffic movement and control; design and operating characteristics of highways and highway systems; environmental considerations in design of highways.

PUBLICATIONS: Research and development reports (available from the National Technical Information Service of the Department of Commerce).

INFORMATION SERVICES: Answers inquiries.

Bureau of Motor Carrier Safety

2322 Federal Highway Administration
400 Seventh St. SW.
Washington, D.C. 20591
Tel: (202) 426-1790

AREAS OF INTEREST: Safety regulations for commercial motor vehicles operating on the highways; road check methods; qualification of drivers; accident analyses; hazardous materials handling; migratory workers transportation safety.

HOLDINGS: Accident reports submitted by motor carrier industry in which buses or trucks operating in interstate or foreign commerce are involved, resulting in property damage amounting to $250 or more, or resulting in personal injury or death; reports of commercial vehicle defects developed by field inspections.

PUBLICATIONS: Periodic reports of specific accidents of national interest, or accidents that disclose unsafe practices of which the motor carrier industry should be made aware; annual statistical reports on bus and truck accident frequency, severity, and other details; special statistical reports on commercial vehicle defects discovered during inspections; periodic safety bulletins. The Bureau maintains a mailing list for those interested in publications.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and training services to State organizations concerned with safety of operation of commercial motor vehicles on the highways.

Bureau of Public Roads

2323 Federal Highway Administration
U.S. Department of Transportation
1717 H St. NW.
Washington, D.C. 20235
Tel: (202) 426-0349

AREAS OF INTEREST: Highway engineering; traffic operations; bridges; hydraulic engineering; highway transportation; highway economics and financing; urban planning.

PUBLICATIONS: *Public Roads* (bimonthly); *Traffic Volume Trends* (monthly); *Highway Progress* (annual); *Highway Statistics* (annual).

INFORMATION SERVICES: Answers general inquiries; makes referrals; provides consulting services and technical assistance to States and foreign countries.

AERIAL SURVEYS BRANCH

2324 U.S. Bureau of Public Roads
400 Seventh St. SW.
Washington, D.C. 20591
Tel: (202) 426-0296

AREAS OF INTEREST: Photogrammetry and aerial surveys applied to highway engineering.

PUBLICATIONS: Technical papers, reports, specifications.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services; conducts schools, and provides in-service training.

OFFICE OF RESEARCH AND DEVELOPMENT

Engineering Systems Division

Electronic Computer Program Library

2325 Engineering Systems Division
Office of Research and Development
U.S. Bureau of Public Roads
Washington, D.C. 20591

Location:

Fairbanks Highway Research Station
4611 Chain Bridge Rd.
McLean, Va.
Tel: (703) 557-5242

AREAS OF INTEREST: Highway and bridge engineering.

HOLDINGS: A collection of computer programs related to highway and bridge engineering (a list of programs is free on request); 500 books; 25 periodical titles.

PUBLICATIONS: Abstracts and indexes, periodicals, books.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, literature-searching, and abstracting and indexing services; permits onsite use of collection. Services are available to anyone connected with highway and bridge engineering. Computer programs are provided free to Federal and State Government agencies; others may purchase the programs from the National Technical Information Service, Springfield, Va. 22151.

Federal Railroad Administration

Bureau of Railroad Safety

2326 Federal Railroad Administration
U.S. Department of Transportation
400 Seventh St. SW.
Washington, D.C. 20591
Tel: (202) 426-0895

AREAS OF INTEREST: Railroad and pipeline safety, including safety appliances for locomotives and cars, railroad signal and train control systems, inspection and testing of locomotives and of power or train brakes, transportation of hazardous materials by railroad and pipeline, railroad and pipeline accidents, and awards of lifesaving medals under the Medals of Honor Act.

HOLDINGS: Railroad accident reports, locomotive specifications, modification of signal systems dockets, special permits for the transportation of hazardous material by railroad.

PUBLICATIONS: *Summary of Accidents Reported by All Line-Haul and Switching and Terminal Railroad Companies* (monthly); *Preliminary Report of Railroad Accidents and Resulting Casualties* (monthly); *Rail-Highway Grade-Crossing Accidents* (annual); *Accident Bulletin* (annual); *Railroad Accident Investigation Reports* (irregular).

INFORMATION SERVICES: Answers inquiries; makes referrals.

Office of High- Speed Ground Transportation

2327 Federal Railroad Administration
U.S. Department of Transportation
400 Seventh St. SW.
Washington, D.C. 20591
Tel: (202) 426-0966

AREAS OF INTEREST: Intercity and metropolitan high-speed ground transportation systems; regional transportation systems engineering and economic research; transportation systems demonstrations.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Office of Policy and Program Analysis

2328 Federal Railroad Administration
U.S. Department of Transportation
400 Seventh St. SW.
Washington, D.C. 20591
Tel: (202) 426-0933

AREAS OF INTEREST: Railroad transportation research; national rail transportation planning; rail safety technology; economic research and impact studies; rail legislative programs.

INFORMATION SERVICES: Answers inquiries; makes referrals.

The Alaska Railroad

2329 Federal Railroad Administration
U.S. Department of Transportation
P.O. Box 7-2111
Anchorage, Alaska 99501
Tel: (907) 265-2411

AREAS OF INTEREST: Freight and passenger railroad and sea-train service in Alaska.

INFORMATION SERVICES: Answers inquiries; makes referrals. Information on the Alaska Railroad can also be obtained from the following offices:

The Alaska Railroad
U.S. Department of Transportation
400 Seventh St. SW.
Washington, D.C. 20591
Tel: (202) 426-0893

The Alaska Railroad
U.S. Department of Transportation
226 Federal Office Bldg.
Seattle, Wash. 98104
Tel: (206) 583-5416

National Highway Safety Bureau

Motor Vehicle Programs

2330 National Highway Safety Bureau
Washington, D.C. 20591
Tel: (202) 426-1810

AREAS OF INTEREST: Safety performance standards for motor vehicles and motor vehicle equipment, including tires; standards geared to accident avoidance, crash-injury reduction, and post-crash measures; assuring manufacturers' comformance with safety performance standards and monitoring manufacturers' defects recall programs.

HOLDINGS: Reports of vehicle safety defects; records on the development of standards; dockets of material submitted for preparation of standards.

INFORMATION SERVICES: Answers inquiries; cooperates with other Federal, State, and private agencies in planning vehicle safety standards established by the Secretary of Transportation; provides consulting services for manufacturers regarding standards and compliance, records, reports, tests, inspections, and investigations; furnishes transcript copies of records and proceedings on request; provides information on vehicle safety defects to assist in meeting the purpose of the National Traffic and Motor Vehicle Safety Act of 1966.

National Highway Safety Institute

2331 National Highway Safety Bureau
Federal Highway Administration
6th and D Sts. SW.
Washington, D.C. 20591
Tel: (202) 962-5503

AREAS OF INTEREST: Research, development, testing, and evaluation programs in motor vehicle and highway safety.

HOLDINGS: The National Driver Register Service, a nationwide master file of State driver license revocations, utilized by States to search driver records. The Institute develops, and keeps current, statistical data on drivers, vehicles, highways, accidents, and traffic safety trends. It acquires and maintains a comprehensive collection of publications, reports, training manuals, and other documents relating to traffic safety.

INFORMATION SERVICES: Prepares or sponsors preparation of documents and audiovisual aids (including films) for disseminating traffic safety information to schools and universities, to scientific, medical, legal, engineering, enforcement, licensing, and other groups, and to the general public.

TECHNICAL REFERENCE DIVISION

2332 National Highway Safety Institute
National Highway Safety Bureau
400 Seventh St. SW.
Washington, D.C. 20591
Tel: (202) 426-2768

AREAS OF INTEREST: All areas of motor vehicle and highway safety, including automotive engineering and design, human factors in vehicle design and operation, driver education and behavior, highway design as a factor in accident causation and prevention, emergency services, and all areas related to motor vehicle accidents.

HOLDINGS: Over 7,000 documents (reports, reprints, papers).

PUBLICATIONS: *Highway Safety Literature* (weekly); compilations of motor vehicle and highway safety standards (irregular).

INFORMATION SERVICES: Answers inquiries, makes referrals, and provides reference and bibliographic services to the general public as time permits; permits onsite reference to the collection, including Bureau-generated reports.

Traffic Safety Programs

2333 National Highway Safety Bureau
400 Seventh St. SW.
Washington, D.C. 20591
Tel: (202) 426-0837

AREAS OF INTEREST: Performance standards and technical guideline material for State highway safety programs implemented by matching grants-in-aid, including motor vehicle inspections, motorcycle safety, driver education and licensing, pedestrian safety, traffic control devices, enforcement processes, highway design and maintenance, accident investigations, emergency treatment and transfer of injured, vehicle laws and codes, traffic court practices, and traffic record system.

PUBLICATIONS: *Highway Safety Program Manual* (one volume for each standard and one for State planning and administration).

INFORMATION SERVICES: Answers inquiries; provides advisory and technical services to States and communities in establishing approved highway safety programs.

National Transportation Safety Board

2334 Publications Section
Washington, D.C. 20591

Location:

1626 K St. NW.
Washington, D.C.
Tel: (202) 382-2906

AREAS OF INTEREST: Special safety studies and accident reports pertaining to aviation, highway, railroad, pipeline, and marine transportation accidents and related subjects.

HOLDINGS: Reports.

PUBLICATIONS: Special safety studies; statistical compilations of selective accident data; accident reports; examiners' initial decisions; opinions and orders of the Board; regulations of the Board; press releases. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite use of collection. Requests relating to some 18,000 aircraft accident files are processed for a service fee; reproduction of the files is done under contract by a private firm that fills the request directly.

Office of the Secretary of Transportation

Headquarters Library

2335 U.S. Department of Transportation
Library Services Division, TAD-49
Washington, D.C. 20590

Locations:

Nassif Bldg., Room 2134A
400 Seventh St. SW.
Washington, D.C.

Federal Office Bldg. 10A, Room 930
800 Independence Ave. SW.
Washington, D.C.
Tel: (202) 962-5323

This departmental headquarters library was established in July 1969 by consolidation of the headquarters libraries of the Bureau of Public Roads, Coast Guard, and Federal Aviation Administration. It is located in the two buildings, listed above, that house Department of Transportation personnel.

AREAS OF INTEREST: *Roads and Highways:* Highway and bridge engineering; research in hydraulics, soils and other engineering materials, and loads on pavements and bridges; methods and equipment for road construction and maintenance; permafrost problems, snow removal, and ice control; highway economics and finance, including Federal and State aid for highways, highway need studies, benefit-cost-analysis studies, right-of-way acquisition, eminent domain, highway user taxes, bond issues and financing, highway tolls, relocation costs, and economic impact studies; highway transportation, including vehicle operating costs, road usage, statistics on highway transport, and coordination and competition with other modes of transportation; traffic engineering, including road marking, traffic signs and lights, highway traffic control systems, traffic flow and congestion, traffic regulations and enforcement, and parking; traffic safety, including safety programs, motor vehicle inspection, and analysis, statistics, and records of traffic accidents; driver studies, including driver simulation, driver training, psychological aspects of driving, accident-prone drivers, financial responsibility of drivers, and National Driver Register Service; roadside development, including roadside service areas, parks, zoning, planting, weed control, and slope erosion and landslide control; highway beautification, including scenic overlooks, billboard control, litter control, and automobile junkyards; studies in transportation planning and policy, including urban transportation, traffic surveys and forecasts, industrial site selection, land utilization, air rights, journey to work, and choice of modes of transportation. *Aviation:* Aeronautics; aerodynamics; aviation safety; various facets of civil aviation, including air navigation, airports, air traffic control, and air transportation; aviation medicine; aviation statistics; aircraft and airline industries; aviation history; meteorology; communications and communications equipment. *Sea Transportation:* Marine engineering; ships and shipbuilding; navigation; oceanography; marine safety. *Law:* Transportation law; international, Federal, and State law; legislative histories.

HOLDINGS: Books, periodicals, pamphlets, technical reports, manuals, specifications, standards, and microforms; a special collection on law of 30,000 volumes, including 4,000 treaties and a legislative collection of 15,000 selected items commencing with the 69th Congress (the law collection is primarily for the use of General Counsel personnel within the Department); a special collection of planning reports (city, county, State, and national); Aeronautical Information Publications (describing aeronautical facilities in foreign countries); a special index file of periodical literature on highways and urban transportation, consisting of more than 700,000 cards filed chronologically by subject matter, much of which is not indexed in commercial indexes; selected titles issued by Coast Guard, Federal Aviation Administration, and CAA.

PUBLICATIONS: *Highways: Current Literature* (weekly); *Urban Transportation Research and Planning: Current Literature* (biweekly); special bibliographies, announcement bulletins.

INFORMATION SERVICES: Answers inquiries on certification of pilots, instructors, flight engineers, mechanics, and dispatchers; performs subject searches of 25,000 reports, using Federal Aviation Information Retrieval Systems (FAIRS, a partially automated system); permits onsite reference, except for documents restricted to Federal agency use; makes interlibrary loans to recognized libraries.

Office of Hazardous Materials

2336 Office of the Secretary of Transportation
U.S. Department of Transportation
400 Sixth St. SW.
Washington, D.C. 20590
Tel: (202) 962-5543

AREAS OF INTEREST: Hazardous materials (explosives and other dangerous articles); preparation of shipments, including classification, packaging, and labeling requirements; specifications for packaging and packages; transportation by carrier by rail, highway, air, water, and pipeline.

HOLDINGS: Public dockets for rule-making actions; accident and incident reports; data on prospectus and characteristic of chemicals; package construction requirements.

PUBLICATIONS: Rule-making actions (notices of proposed rule-making and amendments); Code of Federal Regulations, Title 49-Transportation, Parts 1 to 199.

INFORMATION SERVICES: Consults with and advises shippers, carriers, governmental agencies, and the general public on all phases of shipping to educate students and inform participants on the formulation, promulgation, and administration of the hazardous materials regulations.

Office of Supersonic Transport Development

2337 Office of the Secretary of Transportation
U.S. Department of Transportation
800 Independence Ave. SW.
Washington, D.C. 20590
Tel: (202) 962-6376

AREAS OF INTEREST: Development of a commercial supersonic transport aircraft; sonic boom and other problems associated with supersonic flight.

INFORMATION SERVICES: Answers inquiries.

Saint Lawrence Seaway Development Corp.

2338 Seaway Circle
Massena, N.Y. 13662
Tel: (315) 764-0271

AREAS OF INTEREST: Water transportation and tolls; hydropower; shipping of freight by inland waterways; measurement of vessels and cargoes; oil pollution on inland waterways.

INFORMATION SERVICES: Answers inquiries from shippers and potential shippers regarding vessel preclearance procedures, tolls assessments, and transit times.

THE TRAVELERS RESEARCH CENTER, INC.

2339 250 Constitution Plaza
Hartford, Conn. 06103
Tel: (203) 277-3326

AREAS OF INTEREST: Atmospheric dynamics; mesometeorology; air pollution; hurricane forecasting research; weather forecasting services; oceanography; hydrology and water resources; operations research; mathematical statistics; data processing; electronic systems design; meteorology; traffic safety.

HOLDINGS: 3,000 books; 500 journals; 6,500 reports; over 4,000 magnetic tapes of meteorological and oceanographic data; various maps, charts, and data.

PUBLICATIONS: *Library Acquisition List* (monthly); reports, state-of-the-art review, standards and specifications, bibliography.

INFORMATION SERVICES: Provides consulting and reference services for fee; makes interlibrary loans; permits onsite use of collection.

Facilities include a fully-equipped computer laboratory, IBM 360/40.

TREASURY, DEPARTMENT OF THE

Bureau of Customs

Division of Technical Services

2340 Bureau of Customs
U.S. Department of the Treasury
2100 K St. NW.
Washington, D.C. 20226

Tel: (202) 964-5853

AREAS OF INTEREST: Analytical chemistry; statistical sampling procedures; detection of fraud and smuggling; evaluation and testing of instruments; analysis, sampling, weighing, and gaging of imported and exported merchandise (ores and minerals, raw sugar, fertilizers, metals and metal products, wool, textiles, petroleum and petroleum products, alcoholic products, including distilled spirits, coal-tar dyes, lakes and toners, and fixed and essential oils, including greases and waxes).

HOLDINGS: The Division maintains a working collection of books, journals, and reports at the Washington office, including materials on new sampling procedures and analytical chemistry. The Washington office also administers a computerized infrared spectrum retrieval service for internal use only. The New York laboratory (address below) has a special collection of data on dyestuffs and coal-tar intermediates.

PUBLICATIONS: *U.S. Customs Laboratory Methods* (each publication in the series is devoted to the analysis of a specific class of items).

INFORMATION SERVICES: Supplies information on methods of analysis and instrumentation to certain authorized nongovernment organizations. In cases of legitimate need, papers describing laboratory methods in use will be supplied to individuals who apply in writing to the Director of the Division. Materials in the collections are made available to Government agencies and others upon approval. Testing services are provided on a limited basis to Government agencies, but not to nongovernment organizations. The Division maintains 10 field laboratories located at principal ports throughout the U.S. Although each laboratory analyzes a wide variety of products, some laboratories provide specialized services. The Baltimore laboratory specializes in sampling procedures, statistical methods, the evaluation and testing of instruments, and infrared techniques to determine the origin of narcotic drugs; the New York laboratory specializes in X-ray diffraction studies and the testing of dyestuffs; and the Boston laboratory performs probability sampling and testing of wool for clean content and grade. The field laboratories are located as follows:

U.S. Customs Laboratory
103 South Gay St.

Baltimore, Md. 21202

Tel: (301) 752-2592

U.S. Customs Laboratory
408 Atlantic Ave.

Boston, Mass. 02110

Tel: (617) 223-7709

U.S. Customs Laboratory
610 South Canal St.

Chicago, Ill. 60607

Tel: (312) 828-6128

U.S. Customs Laboratory
423 Canal St.

New Orleans, La. 70130

Tel: (504) 527-6311

U.S. Customs Laboratory
300 South Ferry St.

San Pedro, Calif. 90731

Tel: (213) 831-9435

U.S. Customs Laboratory
201 Varick St.

New York, N.Y. 10014

Tel: (212) 620-3538

U.S. Customs Laboratory
La Marina

San Juan, Puerto Rico 00903

Tel: (809) 723-2780 Ext. 32

U.S. Customs Laboratory
630 Sansome St., Room 1508

San Francisco, Calif. 94111

Tel: (415) 556-5437

U.S. Customs Laboratory
Bay and Bull Sts.

Savannah, Ga. 31401

Tel: (912) 232-4344

U.S. Customs Laboratory
Manion Bldg.

301 Broadway

San Antonio, Tex. 78205

Tel: (512) 225-4755 or 225-4757

Bureau of Engraving and Printing

Office of Research and Technical Services

2341 Bureau of Engraving and Printing
14th and C Sts. SW.
Washington, D.C. 20226
Tel: (202) 964-7211

AREAS OF INTEREST: Counterfeiting of U.S. securities; paper, inks, pigments, oils, varnishes, adhesives, machinery, and electronic devices used in printing processes; methods of analysis; instrumentation of printing and engraving processes.

INFORMATION SERVICES: Answers inquiries that do not require extensive research; furnishes information on the Office's methods of analysis and instrumentation on a cooperative basis.

Bureau of the Mint

2342 U.S. Department of the Treasury
15th St. and Pennsylvania Ave. NW.
Washington, D.C. 20220
Tel: (202) 964-2133

AREAS OF INTEREST: Gold and silver (melting, refining, analysis); fire assay and wet chemical methods of quantitative determination of gold and silver; statistics on U.S. gold and silver production and consumption; specifications for coinage alloys; new alloys and substitute materials for use in coinage; manufacture of domestic and foreign coins; manufacture of gold, silver, and bronze medals; nondestructive testing of questioned coins.

PUBLICATIONS: *Domestic and Foreign Coins Manufactured by Mints of the United States 1792-1965* (contains records of domestic coinage struck and coinage for 37 foreign countries); *Medals of the United States Issued for Public Sale. 1969* (historic bronze medals, illustrated in actual size, with background and biographical data); *Annual Report of the Director of the Mint.* These publications may be purchased from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402.

INFORMATION SERVICES: Answers inquiries from Federal agencies (and from others as time and staff permit) regarding distribution of coins and historical matters. The mints in Denver and Philadelphia and the assay offices in New York City and San Francisco assay samples of bullion for gold and silver for the public, and the Denver Mint makes commercial assays of ores for gold, silver, lead, zinc, and copper; nominal charges are made for assay services. The mints and assay offices are located as follows:

United States Mint
16th and Spring Garden Sts.
Philadelphia, Pa. 19130
Tel: (215) 597-7350

United States Mint
320 West Colfax St.
Denver, Colo. 80204
Tel: (303) 297-4280

United States Assay Office
155 Hermann St.
San Francisco, Calif. 94102
Tel: (415) 556-6707

United States Assay Office
32 Old Slip
New York, N.Y. 10005
Tel: (212) 264-1727

Internal Revenue Service

Alcohol, Tobacco, and Firearms Division

NATIONAL OFFICE LABORATORY

2343 Alcohol, Tobacco, and Firearms Division
Internal Revenue Service
1111 Constitution Ave. NW.
Washington, D.C. 20224
Tel: (202) 964-4201

AREAS OF INTEREST: Testing procedure for distilled spirits, fermented alcoholic beverages, foods, flavors, and medicinal preparations using taxpaid spirits, tobacco and tobacco products, lubricating oils, toilet preparations, solvents, and pharmaceuticals; testing and calibration of beer meters and thermometers; evaluation of locks, seals, and other security devices; examination of physical evidence, using conventional methods and neutron activation analysis; questioned document examination; inks, paper, and typewriter type examination; explosives; specifications for denaturants; gaging equipment.

HOLDINGS: About 4,000 reference books.

PUBLICATIONS: *Methods of Analysis for Alkaloids, Opiates, Marihuana, Barbiturates and Miscellaneous Drugs*; *Methods of Analysis for Tobacco and Tobacco Products.*

INFORMATION SERVICES: Information services are primarily for agency and Department officials, but the Laboratory cooperates with other Federal and State law enforcement officers when requested.

Facilities include neutron activation instruments, gas chromatographs, atomic absorption, infrared and ultraviolet spectrophotometers, smoking machines, etc.

TRENTON FREE PUBLIC LIBRARY

Business and Technical Department

2344 Trenton Free Public Library
120 Academy St.
Trenton, N.J. 08608
Tel: (609) 392-7188 Ext. 23

AREAS OF INTEREST: Mathematics; astronomy; physics; chemistry; engineering and applied technology.

HOLDINGS: 8,500 books; 500 periodicals; 5,000 pamphlets; Federal specifications and standards; *Patent Gazette*, 1790 to present; *Chemical Abstracts*, 1907 to present; *Nuclear Science Abstracts*; bibliographies.

PUBLICATIONS: Accessions list (bimonthly).

INFORMATION SERVICES: Answers inquiries; provides literature-searching services; makes referrals; lends materials; permits onsite reference.

TRI-SERVICE AND NASA FAILURE RATE DATA (FARADA) PROGRAM

2345 U.S. Naval Fleet Missile Systems Analysis
and Evaluation Group (CODE E-632)
Corona, Calif. 91720
Tel: (714) 736-4677

The FARADA Program is a joint Army, Navy, Air Force, NASA, and FAA sponsored data exchange program established to collect, compile, analyze, and disseminate part/component/module/assembly failure rate and failure mode data to prime contractors and major subcontractors engaged in the design, development, and production of hardware for the entire spectrum of military and space equipments and systems.

AREAS OF INTEREST: Failure rates and failure modes for reliability; maintainability; logistics spares provisioning. Data is on electrical, mechanical, pneumatic, hydraulic, and pyrotechnic parts and components, from field use history, extended life testing, reliability demonstration testing (AGREE), and accelerated life tests.

HOLDINGS: Approximately 54,000 line entries of tabulated failure rate data and approximately 2,600 line entries of failure mode distribution data on electrical, electronic, mechanical, hydraulic, pneumatic, and pyrotechnic parts/components as derived from all types of military and aerospace systems, including applications in ground, mobile, shipboard, aircraft, missile, satellite, and other environments are available in the Program's data bank. This data bank is continuously being added to at the rate of over 2,000 line entries each quarter. A computer tape of the tabular FARADA data is available for loan to participants.

PUBLICATIONS: Abstracts and indexes, directories, data compilations, technical reports. Participants in the Program are provided FARADA Handbooks consisting of five volumes of information, which are currently updated on a quarterly basis. The volumes includes: volume 1A and 1B containing part/component failure rates with supporting information such as vendor identification, part number, and environmental and operational stress levels; volume 2 containing part failure rate stress curves; volume 3 containing background information on sources of failure rate and failure mode data; volume 4 containing failure mode data; and Report CAI-NY6155 containing statistically analyzed FARADA data. A FARADA "Standard Operating Procedure" to provide guidelines for the collection, submission, and utilization of FARADA data and a FARADA "Instruction Book" on how to locate specific data in the Handbooks are also provided to participants. FARADA data is periodically analyzed and reports are provided to all participants.

INFORMATION SERVICES: Answers inquiries; provides advisory and consulting services; evaluates and analyzes data; permits onsite use of collection; disseminates publications. Services are available to DoD, NASA, FAA, and other Government agencies, their contractors, educational institutions, and, under certain conditions, consultant firms and foreign contractors having U.S. contracts. Currently, the primary users comprise nearly 217 prime and major subcontractors engaged in either a military or NASA effort. About 92 Government activities and 15 educational institutions participate in the Program as secondary users. FARADA participation is on a voluntary basis and participants are not subject to fees. Participation requirements are based on a reciprocal exchange of data.

TRINITY IMPROVEMENT ASSOCIATION

2346 El Patio East, Room 105
604 Avenue H East
Arlington, Tex. 76010
Tel: (817) 261-1661
(214) 261-1662

AREAS OF INTEREST: Water resources development in the Trinity River basin.

HOLDINGS: Reference collection of books, periodicals, and reports.

PUBLICATIONS: *Trinity Valley Progress* (bimonthly); *TIA Newsletter* (weekly); *Trinity River--New Vistas of Opportunity for Texas and the Great Southwest*; *Trinity River Report* (weekly).

INFORMATION SERVICES: Answers inquiries; provides reference services; makes referrals; shows slides and movie; permits onsite use of collection. Services are free to all users.

TRUCK TRAILER MANUFACTURERS ASSOCIATION

2347 1413 K St. NW.
Washington, D.C. 20005
Tel: (202) 393-2979

AREAS OF INTEREST: Truck trailers; cargo containers.

HOLDINGS: Reports, pamphlets, data.

PUBLICATIONS: News journal, proceedings, directory.

INFORMATION SERVICES: Makes referrals; provides reference services.

TRW SYSTEMS GROUP

2348 One Space Park
Redondo Beach, Calif. 90278
Tel: (213) 679-8711

AREAS OF INTEREST: Missile and space vehicle systems engineering, design, development, and fabrication; spacecraft mission analysis and trajectory simulation; microelectronics research and development; software and information systems development; systems engineering for civil programs such as medical, pollution, traffic and transportation, flood control, and urban development.

HOLDINGS: 35,000 books; 940 periodical titles; 9,500 bound journals; 140,000 technical documents; 255,000 microfiche.

PUBLICATIONS: *Research Bibliographies*.

INFORMATION SERVICES: Makes interlibrary loans; provides copying and literature-searching services; permits onsite use of collection by arrangement.

TUCKER MANUFACTURING CORP.

2349 345 Central St.
Leominster, Mass. 01453
Tel: (617) 537-1621

AREAS OF INTEREST: Insection molding.

HOLDINGS: Small collection of books.

INFORMATION SERVICES: Answers inquiries; provides reference services; permits onsite use of collection.

TUFTS UNIVERSITY

Lufkin Engineering Library

2350 Anderson Hall
Tufts University
Medford, Mass. 02155
Tel: (617) 628-5000 Ext. 357

AREAS OF INTEREST: Civil engineering, including construction, highways, urban planning, soil mechanics and foundation engineering, water and air pollution control, and public health; mechanical engineering, including fluid mechanics, sound and vibration, applied mechanics, and applied thermodynamics; electrical engineering, including circuits, wave guides, information theory, and solid state; engineering graphics.

HOLDINGS: 3,000 books; 360 periodical titles currently received; 9,000 bound journals; 12,000 reports.

PUBLICATIONS: *Periodicals in Science and Technology* (annual, with monthly supplements); *List of Acquisitions* (monthly).

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference.

Rockwell Chemistry Library

2351 Pearson Chemistry Laboratory
Tufts University
62 Talbot St.
Medford, Mass. 02155
Tel: (617) 776-2100

AREAS OF INTEREST: Chemistry; chemical engineering.

HOLDINGS: 2,000 books; 130 periodical titles; 6,000 bound journals.

INFORMATION SERVICES: Permits onsite reference; makes interlibrary loans; provides duplication services for fee.

TULANE UNIVERSITY

Computer Centers

2352 Tulane University
134 LaSalle St.
New Orleans, La. 70112
Tel: (504) 525-8708

AREAS OF INTEREST: Computers; information systems; computer programming; computer applications; medical data banks; biomedical computing system.

HOLDINGS: 350 project records; 375 technical reports; punched cards, tapes.

PUBLICATIONS: Reports, brochure.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

Department of Environmental Health

2353 School of Public Health and Tropical Medicine
Tulane University
1430 Tulane Ave.
New Orleans, La. 70112
Tel: (504) 523-3381

AREAS OF INTEREST: Occupational health; hydrology; sanitary chemistry; water and waste treatment; environmental microbiology; radiological health; air pollution control; industrial waste treatment.

HOLDINGS: 8,000 books; periodicals.

PUBLICATIONS: Periodicals, books, reports, reviews.

INFORMATION SERVICES: Provides consulting services for fee.

TULSA CITY-COUNTY LIBRARY

Science and Technology Department

2354 Tulsa City-County Library
Tulsa, Okla. 74103

AREAS OF INTEREST: Geology; petroleum; general engineering.

HOLDINGS: 165,000 books; 600 periodical subscriptions; 5,000 reels of microfilm; 100 photos (largely historical); maps and charts (the Department is a depository for U.S. Geological Survey publications); technical reports of geological societies and State engineering experiment stations; ASTM standards and military and Federal specifications; chemical abstracts, petroleum abstracts, and nuclear science abstracts; reprints, publication lists, newsletters.

PUBLICATIONS: Bibliographies.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides bibliographic services; permits onsite reference; lends materials.

U.S. BORAX RESEARCH CORP.

Research Library

2355 U.S. Borax Research Corp.
P.O. Box 4111
Anaheim, Calif. 92803

Location:

412 Crescent Way
Anaheim, Calif.
Tel: (714) 774-2670

AREAS OF INTEREST: Boron chemistry; chemistry and certain aspects of mining, ceramics, and agriculture; metallurgy; glass.

HOLDINGS: 2,500 books; 6,000 journals; 11,000 reports; patents, microcards, microfilms, data; extensive specialized collection in boron chemistry.

PUBLICATIONS: Accessions list, index, bibliographies.

INFORMATION SERVICES: Answers inquiries; provides reference services; makes interlibrary loans; permits limited onsite reference by request.

U.S. DIVERS CO.

2356 3323 West Warner Ave.
Santa Ana, Calif. 92702
Tel: (714) 540-8010

AREAS OF INTEREST: Underwater sports equipment; diving gear.

HOLDINGS: Various published materials relating to underwater sports equipment.

INFORMATION SERVICES: Answers inquiries; provides consulting and bibliographic services; permits onsite reference.

U.S. INDUSTRIAL CHEMICALS CO.

Chemical Library

2357 U.S. Industrial Chemicals Co.
99 Park Ave.
New York, N.Y. 10016
Tel: (212) 697-0700

AREAS OF INTEREST: Industrial chemistry; polymers; polyethylene resins; industrial ethyl alcohol; organic solvents and intermediates; metallic sodium and sodium compounds; heavy inorganic chemicals; refractory metal compounds; market research.

HOLDINGS: 1,500 volumes, including a complete set of *Chemical Abstracts*.

PUBLICATIONS: *U.S.I. News* (monthly).

INFORMATION SERVICES: Permits onsite reference; makes interlibrary loans.

UFO INFORMATION RETRIEVAL CENTER, INC.

2358 P.O. Box 57
Riderwood, Md. 21139

Location:
7916 Springway Rd.
Riderwood, Md.
Tel: (301) 435-0705 or 825-3011

AREAS OF INTEREST: Unidentified flying objects (UFO's).

HOLDINGS: Several hundred sighting accounts available verbatim on punched cards and magnetic tape (approximately one million characters); books, periodicals, reports.

PUBLICATIONS: Casebook of significant and meaningful sighting reports; abstracts, bibliographies.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, literature-searching, abstracting, and duplication services; makes referrals; permits onsite use of library materials. Services are provided free to students and at cost to others.

UKRANIAN ENGINEERS' SOCIETY OF AMERICA, INC.

2359 2 East 79th St.
New York, N.Y. 10021
Tel: (212) 535-7676

AREAS OF INTEREST: All branches of engineering and technology.

HOLDINGS: 340 photos; 70 periodicals; 70 reviews; data compilations, maps, charts, project records, clippings.

PUBLICATIONS: Newsletter (4 times a year); Board of Directors' and Chapters' Bulletins (4-6 a year).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and translating (English, Ukranian, German, Russian, Polish) services for fee; provides bibliographic services; prepares analyses and evaluations; permits onsite use of collection.

ULI--THE URBAN LAND INSTITUTE

2360 1200 18th St. NW.
Washington, D.C. 20036
Tel: (202) 338-6800

AREAS OF INTEREST: Urban land use; land planning and development; real estate development; downtown redevelopment; land use economics; new town development; urban research studies; urban research inventory and bibliography; shopping center planning, design, layout, location, and feasibility; air space usage; taxation and land use.

HOLDINGS: Books, journals, reports, photos, slides, maps, charts, project records, posters and other display materials, graphs, tables, reviews, abstracts, indexes, newsletters, preprints, reprints, bibliographies, pamphlets, clippings, tear sheets, publication lists, committee records, data.

PUBLICATIONS: *Urban Land* (monthly); *Land Use Newsletter* (monthly); *Community Builders Handbook*; Quarterly Trend Series; technical bulletins, research monographs, studies, annual report, special reports. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides bibliographic services; conducts conferences, seminars, symposiums, and research studies; permits onsite reference. Priority is given to organization members.

ULTRA-VIOLET PRODUCTS, INC.

2361 5114 Walnut Grove Ave.
San Gabriel, Calif. 91778
Tel: (213) 283-3193

AREAS OF INTEREST: Manufacture of ultraviolet light sources and fluorescent materials; ultraviolet lamps for mining and prospecting of scheelite (tungsten), mercury, and other fluorescent minerals, petroleum analysis, rodent contamination detection, inspection of epoxy coatings and encapsulating materials on components for printed circuit board fabrication, detection of organic and inorganic contamination on lead wires and other networks of welded module assemblies, fluorescent penetrant inspection, inspection of Lox parts, and curing of adhesive systems; small, pencil-type ultraviolet lamps for spectrophotometer calibration and fluorescent microscopy; photochemical lamps for sterilization; ultraviolet meters and absorbing goggles; fluorescent materials for invisible tracing, marking, and coding in both industrial and textile fields; chromatography cabinets for analyses of absorbing and fluorescent chemicals.

HOLDINGS: A complete library on ultraviolet light and its many applications.

PUBLICATIONS: *The DART* (laboratory reports on development and research on ultraviolet light and fluorescent materials); brochures, catalogs.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and consulting services for fee; identifies fluorescent minerals.

UMAR OCEANICS

2362 8367 Oso Ave.
Canoga Park, Calif. 91304
Tel: (213) 882-9433

AREAS OF INTEREST: Oceanographic research and development; deep sea diving and underwater habitats; ocean and land mining; biological and geological survey; deep ocean salvage systems; underwater construction.

HOLDINGS: Worldwide geological data for mining and research studies; 1,000 books; 50 periodical titles; 1,000 reports.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries free for persons doing school work or nonprofit research; provides consulting services for fee.

UNIDYNAMICS/ST. LOUIS LIBRARY

2363 472 Paul Ave.
St. Louis, Mo. 63135
Tel: (314) 522-1620

AREAS OF INTEREST: Basic and applied sciences and technologies.

HOLDINGS: 8,300 cataloged books, reports, and documents; 198 periodical and serial titles currently received; reference files of patents, films, drawings, photographs, and manufacturers' and vendors' catalogs; indexed files of company-originated publications, including project reports.

PUBLICATIONS: Accessions list (monthly); bibliographies.

INFORMATION SERVICES: Makes interlibrary loans.

UNION CARBIDE CORP.

Criticality Data Center

2364 Union Carbide Corp.
Y-12 Plant
P.O. Box Y
Oak Ridge, Tenn. 37830
Tel: (615) 483-8611 Ext. 3-5237

AREAS OF INTEREST: Nuclear criticality safety in transportation, storage, and chemical and metallurgical processing of fissile materials.

PUBLICATIONS: Data compilations with necessary correlations; technical guides and standards.

INFORMATION SERVICES: Performs analyses to determine the critical dimensions of accumulations of fissile materials useful to Government agencies, their contractors, research and educational institutions, and industry.

Films-Packaging Division Technical Library

2365 6733 West 65th St.
Chicago, Ill. 60638
Tel: (312) 735-1234

AREAS OF INTEREST: High polymer chemistry and technology; cellulose; polyethylene; organic chemistry; food packaging.

HOLDINGS: 4,000 books; 2,000 bound journals; 600 cataloged pamphlets; 120 boxes of patents; 57 dissertations; 150 translations; films, photos. Special collections include: *Chemical Abstracts*; Beilstein, *Organische Chemie*; Landolt-Borstein, *Zahlenwerte und Funktionen*; and *Uniterm Index of Chemical Patents*.

PUBLICATIONS: Accessions list, bibliography, translations.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference.

Linde Division

Tonawanda Laboratories Library

2366 Linde Division
P.O. Box 44
Tonawanda, N.Y. 14150

Location:
East Park Dr. and Woodward Ave.

Tonawanda, N.Y.
Tel: (716) 877-1600

AREAS OF INTEREST: Chemistry, including gases, properties, uses, and history; physics; solid state physics; thermoelectricity; cryogenics; crystallography; metallurgy; chemical and mechanical engineering; space flight; waste management.

HOLDINGS: 8,000 books; 10,000 journals; 500 pamphlets; 30 vertical file drawers of reports; 250 reels of microfilm; 5 trays of microcards, films, and photos.

PUBLICATIONS: *Book and Technical Report List* (quarterly).

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference.

Materials Systems Division Library

2367 Union Carbide Corp.
P.O. Box 24166
Indianapolis, Ind. 46224

Location:

1500 Polco St.
Indianapolis, Ind.
Tel: (317) 241-2311 Ext. 520

AREAS OF INTEREST: Physics and plasma physics; chemistry; metallurgy; high-temperature materials and processes; plating and coating; welding; mechanical engineering; industrial marketing.

HOLDINGS: 5,000 books; 28,000 bound serials; 20,000 reports; patents, films, photos.

PUBLICATIONS: Index, bibliography.

INFORMATION SERVICES: Makes interlibrary loans or provides duplication services in lieu of loan.

UNION ELECTRIC CO. LIBRARY

2368 P.O. Box 149
St. Louis, Mo. 63166

Location:

1901 Gratiot St.
St. Louis, Mo.
Tel: (314) 621-3222

AREAS OF INTEREST: All phases of electric utility business; electrical, mechanical, and civil engineering; management; air pollution; nuclear power.

HOLDINGS: 8,000 books; 500 periodicals and services; 55 file drawers of pamphlets; 5 file drawers of technical reports; 15 file drawers of corporation annual reports; 200 recordings and scripts of Company-sponsored radio program on St. Louis history; photos and slides of utility plants and plant construction; standards and specifications, clippings, society transactions.

PUBLICATIONS: Accessions list (monthly); daily clipping service on utilities and St. Louis (bound and indexed).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference, literature-searching, and duplication services; makes interlibrary loans; permits onsite reference.

UNION LIBRARY CATALOGUE OF PENNSYLVANIA

2369 3420 Walnut St.
Philadelphia, Pa. 19104
Tel: (215) 382-5104

AREAS OF INTEREST: Library resources in Philadelphia and vicinity.

HOLDINGS: 3.5 million file cards locating 6.5 million volumes in 199 libraries.

INFORMATION SERVICES: Provides reference and bibliographic services; locates books, journals, and microfilms in Philadelphia area libraries or major libraries in the United States; identifies books by supplying publisher, price, date of publication, author, and title, and periodicals by the frequency, date of initial issue, and publisher; provides interpretation of local library resources in specific fields.

UNIROYAL, INC.

Research Center

2370 Uniroyal, Inc.
Alps Rd.
Wayne, N.J. 07470
Tel: (201) 694-4000

AREAS OF INTEREST: Chemistry; physics; mathematics; engineering; rubbers (natural and synthetic); plastics and resins; fibers and textiles.

HOLDINGS: 8,000 books; 8,400 journals; 146 file drawers of patents, photostats, reprints, etc.

INFORMATION SERVICES: Makes limited interlibrary loans.

UNITED AIRCRAFT CORP.

Sikorsky Aircraft Division Library

2371 Sikorsky Aircraft
North Main St.
Stratford, Conn. 06602
Tel: (203) 378-6361 Ext. 1765

AREAS OF INTEREST: Air and surface transportation systems, including helicopters and other vertical takeoff and landing (VTOL) aircraft, turbotrains, and turbine-powered boats; engineering, including advanced research and design, aerodynamics, airframe structure, armament, blade and bonding, computer services, electrical systems, hydraulics and control systems, flight development, dynamics, reliability, weights, instrumentation, materials and process, radio and other electronics systems, maintenance, and calibration; manufacturing.

HOLDINGS: 2,500 books, 320 periodical titles, and 50,000 reports in engineering library; films and pictures (black and white, color, and slides); data sheets, including design specifications; technical publications showing component breakdown; speeches and technical papers; history and development articles; plant description; clippings, patents, pamphlets, brochures, reprints.

PUBLICATIONS: *Sikorsky News* (monthly); *Miracle of the Helicopter* (history); production, development, and field reports; safety, service, and production manuals; news releases, posters and other display materials, film lists, bibliographies.

INFORMATION SERVICES: Answers inquiries; lends films; provides speakers; makes interlibrary loans of unclassified and nonproprietary material.

UAC Library System

2372 United Aircraft Research Laboratories
Silver Lane
East Hartford, Conn. 06108
Tel: (203) 565-3120

AREAS OF INTEREST: Aeronautics; aircraft and rocket engines; applied mechanics; bioengineering; combustion; electronics; energy conversion devices; fluid mechanics; fuel cells; fuels and propellants; gas turbine engines; heat transfer; instrumentation and testing; lasers; machine elements; magnetohydrodynamics; materials, including metals and nonmetals; nuclear engineering; plasma physics; solid state physics; space technology.

HOLDINGS: 50,000 books; 1,000 journals; 90,000 reports; 90,000 microfiche.

PUBLICATIONS: *Library Bulletin*; *Reports Received* (no outside distribution).

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; makes unclassified and nonproprietary information available to scientific community associated with educational institutions.

UNITED GAS CORP.

Research Department Library

2373 United Gas Corp.
P.O. Box 1407
Shreveport, La. 71102

Location:

8015 St. Vincent Ave.
Shreveport, La.
Tel: (318) 861-4531

AREAS OF INTEREST: Business and economics; data processing; chemistry; chemical engineering; electronics; mathematics; physics; natural gas; petroleum.

HOLDINGS: 2,500 books; 3,000 periodicals; 300 technical reports; 1,400 pamphlets; 650 reviews; 150 abstracts and indexes; microfilm, standards and specifications, publication lists, reprints, magnetic tapes.

INFORMATION SERVICES: Permits onsite reference.

UNITED MINE WORKERS OF AMERICA

2374 United Mine Workers Bldg.
Washington, D.C. 20005
Tel: (202) 638-0530

AREAS OF INTEREST: All aspects of coal marketing, scientific research, and competitive relationships between fossil fuels; various facets of economic activities, such as automation, etc.

PUBLICATIONS: *United Mine Workers Journal* (semimonthly).

INFORMATION SERVICES: Answers inquiries; makes referrals; prepares analyses and evaluations.

UNITED NATIONS

Department of Economic and Social Affairs

Resources and Transport Division

WATER RESOURCES SECTION

United Nations Water Resources Development

2375 Water Resources Section
Resources and Transport Division
Department of Economic and Social Affairs
United Nations
New York, N.Y. 10017
Tel: (212) 754-1234 Ext. 3742

AREAS OF INTEREST: Technical assistance (UNDP (Special Fund), UNDP (Technical Assistance), United Nations Regular Program, and World Food Program) in the field of water resources development, including desalination, flood control, hydropower, navigation, ground water, water resources planning and management, water legislation, and river basin development; fellowships to train technicians from developing countries in the various aspects of water resources development; expert group meetings, symposia, training courses and inter-regional seminars, studies, and general data and information collection programs in the aforementioned fields.

PUBLICATIONS: Studies, surveys, reports, seminar and symposium proceedings.

INFORMATION SERVICES: Answers inquiries from Government agencies and from some individuals.

UNITED NUCLEAR CORP. LIBRARY

2376 Grasslands Rd.
Elmsford, N.Y. 10523
Tel: (914) 592-9000

AREAS OF INTEREST: Nuclear engineering; nuclear propulsion; high-temperature materials; nuclear physics; mathematics.

HOLDINGS: 8,800 books; 5,200 journals; 130,000 reports; patents, films, photos, maps, charts, data. The report collection includes documents issued by the U.S. Atomic Energy Commission, the National Aeronautics and Space Administration, and the Department of Defense. Foreign sources are in Russian, Italian, Spanish, French, and German.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference by appointment.

UNITED STATES BREWERS ASSOCIATION, INC.

2377 535 Fifth Ave.
New York, N.Y. 10017
Tel: (212) 682-2400

AREAS OF INTEREST: Beer and ale (brewing, packaging, marketing, legal aspects).

HOLDINGS: 150 books; 50 nontechnical motion pictures; photos, periodicals, reviews, standards and specifications.

PUBLICATIONS: Nontechnical motion pictures, pamphlet.

INFORMATION SERVICES: Makes referrals; provides literature-searching and bibliographic services; permits onsite use of collection.

UNITED STATES COMMITTEE ON IRRIGATION, DRAINAGE AND FLOOD CONTROL

2378 P.O. Box 15326
Denver, Colo. 80215
Tel: (303) 233-3611 Ext. 6575

AREAS OF INTEREST: Irrigation practices and systems; design of irrigation works; irrigation economics and reclamation; water quality; water requirements; sedimentation; land classification; saline and alkaline soils; drainage requirements and economics; flood hydrology and prevention; river training; water law.

PUBLICATIONS: *Annual Report*; *Annual Bulletin*; *Triennial Transactions of International Congresses on Irrigation and Drainage*; *Multi-Lingual Dictionary on Irrigation and Drainage*; *Proceedings of the First Intersociety Conference on Irrigation and Drainage*; *Irrigation in the World--A Global Review*; reports.

INFORMATION SERVICES: Answers inquiries on a limited basis; provides minor reference services.

UNITED STATES COMMITTEE ON LARGE DAMS

2379 c/o Engineers Joint Council
345 East 47th St.
New York, N.Y. 10017
Tel: (212) 752-6800

This Committee serves as a national committee to the International Commission on Large Dams, a forum for the interchange of information among 61 member countries.

AREAS OF INTEREST: Design, construction, maintenance, and operation of large dams, including financial and economic aspects; concrete; failures and accidents to large dams; foundations and underground works; measurements; model legislation for safety of dams.

HOLDINGS: Extensive technical literature, including reports, drawings, and photos.

PUBLICATIONS: Transactions of periodic international congresses, containing papers on selected questions of current importance; *World Register of Dams.*

INFORMATION SERVICES: Answers brief inquiries; makes referrals.

UNITED STATES CONFERENCE OF MAYORS

2380 1612 K St. NW.
Washington, D.C. 20006
Tel: (202) 293-7300

AREAS OF INTEREST: Urban problems, including taxes, race relations, traffic, highways, urban renewal, housing, sewage disposal, air and water pollution, airports, crime, public facilities, civil defense, municipal administration, municipal cooperation, and Federal-city relations.

HOLDINGS: Ordinances, reports, Government documents, reprints.

PUBLICATIONS: *United States Municipal News* (semimonthly); *Federal-City Reporter* (irregular); *City Problems* (annual proceedings series); reports, reprints.

INFORMATION SERVICES: Answers inquiries from Government agencies; distributes publications in answer to serious inquiries from others.

UNITED STATES GOVERNMENT

see names of individual departments and agencies

UNITED STATES INDEPENDENT TELEPHONE ASSOCIATION

2381 438 Pennsylvania Bldg.
Washington, D.C. 20004
Tel: (202) 783-5300

AREAS OF INTEREST: All phases of common carrier communications, including telephony, fixed station radio, mobile radio, educational television, community antenna televising, data transmission, microwave, satellite, and related means.

HOLDINGS: Newsletters, data.

PUBLICATIONS: *Statistical Volumes I and II* (annual); biweekly member letters, including bulletins on plant, traffic, commercial, engineering, and legislative matters; convention papers and speeches at annual meeting.

INFORMATION SERVICES: Answers inquiries; makes referrals.

UNITED STATES SENATE

see Congress of the United States

UNITED STATES TESTING CO., INC.

2382 1415 Park Ave.
Hoboken, N.J. 07030
Tel: (201) 792-2400

AREAS OF INTEREST: Materials testing; chemical analysis; microbiological analysis; product development; psychometrics; consumer research; textile testing; electronics; environmental testing.

HOLDINGS: 3,400 books; 3,575 reviews; 820 standards and specifications; 13,000 punched cards; 820 project records; 550 slides; 5,600 photos; 21 motion pictures; 1,950 periodicals; 16,000 pamphlets; devices; samples, data.

PUBLICATIONS: Pamphlets.

INFORMATION SERVICES: Answers inquiries; provides reference, consulting, and literature-searching services. A fee is charged for all testing services.

UNITED STATES UNDERSEAS CABLE CORP.

2383 5454 Wisconsin Ave.
Washington, D.C. 20015
Tel: (301) 654-6400

AREAS OF INTEREST: Design, fabrication, installation, and maintenance of ocean cable systems; underwater instrumentation implantment; antisubmarine warfare instrumentation.

HOLDINGS: Ocean bottom temperature data and grab samples; maps, charts, technical reports, standards and specifications, reviews, pamphlets, slides, ocean cable route surveys, ocean cable shore landing surveys, news releases, clippings.

INFORMATION SERVICES: Answers inquiries; provides consulting services for fee or on contract basis; makes referrals.

UNITED TECHNOLOGY CENTER

2384 P.O. Box 358
Sunnyvale, Calif. 94088

Location:

1050 East Arques Ave.
Sunnyvale, Calif.
Tel: (408) 739-4880

United Technology Center is a division of United Aircraft Corp.

AREAS OF INTEREST: Rocket propulsion (liquid, hybrid, and solid propellant rocket motors); solid rocket propellants; chemical kinetics; high temperature thermodynamics and materials; ablation; advanced fuels, engines, and control techniques; ignition systems; glass-filament motor casings; thrust vector control steering; exended duration nozzles; rocket testing facilities.

HOLDINGS: 6,000 books; 300 periodicals; 15,000 technical reports; 11,000 pamphlets; 55,000 photos; 4,500 films; 600 slides; 600 maps and charts; 4,000 graphs and tables; 95,000 punched cards; 45,000 standards and specifications; 100 project records; 350 bibliographies; 12,000 clippings; 10,000 reprints; 800 posters and other display materials; 100 models; abstracts, reviews, newsletters, publication lists, news releases.

PUBLICATIONS: Technical reports, standards and specifications, abstracts, indexes, pamphlets, bibliographies, posters and other display materials, news releases.

INFORMATION SERVICES: Answers inquiries; provides consulting, duplication, and limited literature-searching services; makes referrals; makes direct and interlibrary loans of material on limited basis.

UNIVERSAL OIL PRODUCTS CO.

Research Library

2385 Universal Oil Products Co.
30 Algonquin Rd.
Des Plaines, Ill. 60016
Tel: (312) 763-6000

AREAS OF INTEREST: Petroleum refining and engineering; petrochemicals; organic and inorganic chemistry; analytical chemistry; catalyst research; instrumentation; physics; food additives; petroleum product additives.

HOLDINGS: 14,000 volumes; 450 journal subscriptions; 30 vertical file drawers of clippings; American Petroleum Institute's project publications; Technical Oil Mission reports (on microfilm).

PUBLICATIONS: *Table of Contents Bulletin* (for internal distribution only).

INFORMATION SERVICES: Answers inquiries; makes interlibrary loans. The Library is not open to the public.

UNIVERSITIES COUNCIL ON WATER RESOURCES

2386 c/o William S. Butcher, Executive Secretary
Department of Civil Engineering
Taylor Hall 212 A
The University of Texas at Austin
Austin, Tex. 78712
Tel: (512) 836-0440 Ext. 219

AREAS OF INTEREST: Education and research in all aspects of water resources. The Council acts as a forum where issues and problems confronting universities concerned with water resources can be discussed and acted upon. The Council is presently cooperating with the American Geophysical Union in arranging for scientists to visit colleges to present lectures and seminars on water resources topics.

PUBLICATIONS: Newsletter (quarterly); *Graduate Studies in Water Resources* (brochure); *Career Opportunities in Water Resources*.

INFORMATION SERVICES: Answers general questions concerning study programs and other university activities related to water resources.

UNIVERSITY CITY SCIENCE INSTITUTE

Power Information Center

2387 University City Science Center
3401 Market St., Room 2107
Philadelphia, Pa. 19104
Tel: (215) 382-8683 or 382-8674

AREAS OF INTEREST: Advanced nonpropulsive power; electrochemistry; electromagnetics; electrostatics; magnetohydrodynamics; power conditioning; thermionics; thermoelectrics; photoelectrics; mechanical conversion techniques; chemical, nuclear, and solar energy sources.

HOLDINGS: Summaries of Government-sponsored research and development programs in advanced nonpropulsive power.

PUBLICATIONS: Project briefs, indexes of project briefs, conference proceedings.

INFORMATION SERVICES: Provides reference services; supplies project briefs of unclassified programs to those industrial and other non-Government organizations that are included on a mailing list that has been approved by the Interagency Advanced Power Group. Summaries of classified projects are supplied only to Government organizations.

UNIVERSITY MICROFILMS

2388 300 North Zeeb Rd.
Ann Arbor, Mich. 48106
Tel: (313) 761-4700

AREAS OF INTEREST: Microfilming of doctoral dissertations (physical sciences, engineering, humanities, social sciences).

HOLDINGS: Doctoral dissertations, masters theses, books, bibliographies, abstracts, indexes, periodicals.

PUBLICATIONS: *Dissertation Abstracts*: Section A: *The Humanities and Social Sciences*; Section B: *The Physical Sciences and Engineering*; *Masters Abstracts*.

INFORMATION SERVICES: Provides reference, literature-searching, and duplication services for fee.

UNIVERSITY OF AKRON

Center for Information Systems

2389 University of Akron
302 East Buchtel Ave.
Akron, Ohio 44304
Tel: (216) 762-2441 Ext. 517

AREAS OF INTEREST: Rubber, plastics, synthetic fibers, and their end products; high polymer science and technology.

HOLDINGS: 350 periodicals; newsletters, data.

PUBLICATIONS: Two weekly current awareness bulletins (*Polymer Literature Abstracts* and *Polymer Industry News*), containing abstracts from the scientific, technical, and trade literature on rubber, plastics, and synthetic fibers and in general on high polymers.

INFORMATION SERVICES: Provides bibliographic and literature-searching services, both retrospective and current awareness, and selective dissemination of information to companies, universities, and other institutions and individuals on a subscription or fee basis; provides photocopying services; permits onsite reference.

Office of Coordinator of Research

2390 University of Akron
302 East Buchtel Ave.
Akron, Ohio 44304
Tel: (216) 762-2441

AREAS OF INTEREST: Science and technology; rubber technology.

HOLDINGS: Reports.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; provides reference and consulting services.

UNIVERSITY OF ALABAMA

Alabama State Mine Experiment Station

2391 P.O. Box 1466
University, Ala. 35486
Tel: (205) 348-6550

AREAS OF INTEREST: Mineral resources; mining methods; coal technology; mineral preparation;

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petroleum and water resources; water pollution from minerals and fuels; drilling; rock mechanics.

PUBLICATIONS: Bulletins, technical reports, articles contributed to scientific journals.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

Engineering Library

2392 University of Alabama
P.O. Box 6267
University, Ala. 35486
Tel: (205) 348-6551

AREAS OF INTEREST: Engineering, including aeronautical, chemical, civil, electrical, industrial, mechanical, metallurgical, and mining; engineering mechanics; graphics.

HOLDINGS: Books, journals, reports, Government documents.

INFORMATION SERVICES: Makes interlibrary loans.

Marine Sciences Institute

2393 University of Alabama
Box 667
Bayou La Batre, Ala. 36509
Tel: (205) 824-2146 or 824-2136

AREAS OF INTEREST: Hydrography and ecology of estuaries, particularly Mobile Bay and Mississippi Sound.

HOLDINGS: Diversified collection of books, periodicals, and reports in the marine sciences, with a good collection in fisheries.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Lends materials to qualified requesters (copies are provided for a small fee in lieu of interlibrary loans on requests of less than 50 pages).

The Institute has laboratory facilities and vessels equipped with conventional and specialized apparatus for biological, chemical, and geological coastal studies.

Science Library

2394 University of Alabama
P.O. Box 6253
University, Ala. 35486
Tel: (205) 348-5959

AREAS OF INTEREST: Science; mathematics; chemistry; physics; geology; oceanography; biology.

HOLDINGS: 60,000 volumes; journals, reports.

INFORMATION SERVICES: Makes interlibrary loans.

UNIVERSITY OF ALASKA

Alaska Agricultural Experiment Station

2395 University of Alaska
P.O. Box AE
Palmer, Alaska 99645
Tel: (907) 745-3110

AREAS OF INTEREST: Subarctic agriculture; soil science; plant pathology; agronomy; agricultural engineering; agricultural economics; horticulture; entomology; fur production; taxonomy of indigenous flora.

HOLDINGS: 2,750 books; 56 periodical subscriptions; 3 series of abstracts; 2,250 technical reports; 4,975 pamphlets; 1,950 plant specimens; 465 photos; 1,625 project records; 16,500 punched cards; reviews, reprints, data.

PUBLICATIONS: *Agroborealis*; project records, reprints, pamphlets, press releases, data.

INFORMATION SERVICES: Provides reference and consulting services; permits onsite reference.

Institute of Water Resources

2396 University of Alaska
College, Alaska 99701
Tel: (907) 479-7775, 479-7776, or 479-7777

AREAS OF INTEREST: Biological, chemical, and hydrologic information on Alaskan waters; waste treatment processes of and ecological reports on the Far North; arctic sanitary engineering.

HOLDINGS: 1,000 reports; unpublished data on Alaska environment, particularly water; books, periodicals.

PUBLICATIONS: Reports (free, if available; Xeroxing charge for out-of-print reports).

INFORMATION SERVICES: Answers inquiries free; provides advisory and/or consulting services for fee.

UNIVERSITY OF ARIZONA

Arizona Agricultural Experiment Station

2397 University of Arizona
Tucson, Ariz. 85721
Tel: (602) 884-2711

AREAS OF INTEREST: General agriculture; agricultural chemistry; biochemistry; botany; entomology; water utilization; watershed management; agronomy (soils, horticulture, plant breeding, plant pathology); animal pathology; animal science; dairy science; poultry science; agricultural economics, education, and engineering; home economics.

PUBLICATIONS: *Progressive Agriculture in Arizona* (bimonthly); progress reports, technical bulletins.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Arizona Bureau of Mines

2398 University of Arizona
Tucson, Ariz. 85721
Tel: (602) 884-2733

AREAS OF INTEREST: Mining; geology; metallurgy; petroleum; hydrology; deep water wells.

HOLDINGS: 2,000 well cuttings; journals, bulletins, circulars, maps, data.

PUBLICATIONS: Reports, journals, proceedings, bibliographies, bulletins, directories, maps. A descriptive list is available.

INFORMATION SERVICES: Provides reference, consulting, and duplication services for fee; permits onsite reference; provides free mineral identification of rock specimens found in Arizona.

Department of Watershed Management

2399 University of Arizona
Tucson, Ariz. 85721
Tel: (602) 884-2313

AREAS OF INTEREST: Management of renewable natural resources for water, forage, wood, recreation, and wildlife; snow hydrology; resource economics; resource product marketing; remote sensing; quantitative ecology; statistical and computer modeling for biological applications.

HOLDINGS: The Department has access to the University library's holdings of over 1,000,000 volumes, 275,000 microfilms, 14,000 serial titles, over 75,000 maps, and a depository collection of U.S. Government publications.

PUBLICATIONS: Research articles in professional journals in the fields of natural resource management, agriculture, and applied sciences.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

The Department has access to a CDC 6400 computer and supporting facilities and to numerous diverse research laboratories and equipment on the campus. It also has cooperative agreements with designated land areas on which research is or may be conducted.

Engineering Experiment Station

2400 University of Arizona
Tucson, Ariz. 85717
Tel: (602) 884-1118

AREAS OF INTEREST: Engineering, including aerospace, agricultural, automotive, chemical, civil, electrical, environmental, geological, mechanical, metallurgical, mining, nuclear, photogrammetric, and systems; air pollution; physics, including optics, plasma, solid state, lasers, and semiconductors; human factors; data processing, specifically information storage and retrieval and cybernetics.

HOLDINGS: Reports, bulletins, data, nonprinted material.

PUBLICATIONS: Bulletins, reports, newsletter, proceedings of seminars and conferences.

INFORMATION SERVICES: Answers inquiries; provides consulting services for fee; makes interlibrary and direct loans; makes publications available.

Facilities include an integrated circuits laboratory, structural adhesives laboratory, asphalt paving laboratory, Energy, Mass, and Momentum Transfer Laboratory, hydraulics laboratory, analog/hybrid computer laboratory, and laser facilities.

Environmental Research Laboratory

2401 University of Arizona
Tucson, Ariz. 85721
Tel: (602) 884-2931

AREAS OF INTEREST: Desalination; controlled-environment agriculture; desert agriculture; plastic greenhouses.

HOLDINGS: 380 books; 2,600 slides; reports, data.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite reference.

Institute of Atmospheric Physics

2402 University of Arizona
Tucson, Ariz. 85717
Tel: (602) 624-8181

AREAS OF INTEREST: Climatology; cloud physics; saline water demineralization; cloud modification; micrometeorology; dynamic meteorology.

HOLDINGS: Books, journals, reports.

PUBLICATIONS: Reports, data handbook.

INFORMATION SERVICES: Answers inquiries; permits onsite reference.

Lunar and Planetary Laboratory

2403 University of Arizona
Tucson, Ariz. 85721
Tel: (602) 884-1131 (Main Office)
(602) 884-2728 (Library)

AREAS OF INTEREST: Moon (nature of surface, cartography, photographs); planets (photographs, spectra); comets; asteroids.

HOLDINGS: 2,500 books; 75 periodical titles; 5,000 reports; photos, maps. The collection includes Observatory publications.

PUBLICATIONS: *Communications of the LPL* (series, published irregularly); reports, atlases. Publications are available at cost from the University of Arizona Press.

INFORMATION SERVICES: Answers inquiries; provides consulting services for fee; permits onsite use of collection by qualified visitors.

Office of Arid Lands Studies

2404 University of Arizona
1201 East Speedway Blvd.
Tucson, Ariz. 85719
Tel: (602) 884-1955

AREAS OF INTEREST: Arid lands and deserts of the world, with emphasis on physical geography, including vegetation, fauna, meteorology, climatology, geomorphology, soils, coasts, hydrology, and ground water.

HOLDINGS: The Office uses the collections of the University Library.

PUBLICATIONS: *Deserts of the World*; *Arid Lands Research Institutions*; *Arid Lands in Perspective*; abstracts, bibliographies, technical reports, books.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides bibliographic, abstracting and indexing, and current-awareness services. Services are available to qualified arid lands scientists. A fee is charged for extensive services.

Steward Observatory

2405 University of Arizona
Tucson, Ariz. 85717
Tel: (602) 624-8181

AREAS OF INTEREST: Observational astronomy and spectroscopy; theoretical astrophysics; stellar atmospheres and interiors; nuclear and laboratory astrophysics; upper atmospheric physics; photometry.

HOLDINGS: 700 books; 570 journals; 200 reports; films, photos, maps, charts, data.

PUBLICATIONS: *Contributions of the Steward Observatory of the University of Arizona* (1 or 2 a year, with distribution available to other organizations on an exchange basis); technical reports, conference proceedings.

INFORMATION SERVICES: Provides consulting services; permits onsite reference.

Facilities include a 7-inch photographic refracting telescope and a 36-inch reflecting telescope.

University Library

Science Division

2406 University of Arizona Library
Tucson, Ariz. 85721
Tel: (602) 884-1066

AREAS OF INTEREST: All areas of science and technology except anthropology, nursing, and clinical medicine.

HOLDINGS: 160,000 books; 2,700 journals; 2,000 reports; 95,000 Government documents (a depository collection); 158,000 pieces of microform.

PUBLICATIONS: Accessions list (monthly).

INFORMATION SERVICES: Provides reference services; provides duplication services for fee; permits onsite reference (user cards are issued to non-University personnel on request).

Water Resources Research Center

2407 University of Arizona
Tucson, Ariz. 85721
Tel: (602) 624-8181

AREAS OF INTEREST: The Center coordinates interdisciplinary research within the University on all aspects of hydrology and water resources, including studies on rainfall-runoff relationships in semiarid regions, evaporation and seepage control, artificial recharge, reclamation of industrial and sewage effluents, and water harvesting systems.

PUBLICATIONS: Research findings are published as technical reports, available on request; an annual report is published as part of the annual report of the Office of Water Resources Research, U.S. Department of the Interior.

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes referrals.

The Center has field test facilities for evaporation and seepage control, including triplicate ponds instrumented to determine the effectiveness of evaporation retardation. There are also instrumented facilities for studying natural and artificial recharge of ground water.

UNIVERSITY OF ARKANSAS

Engineering Experiment Station

2408 University of Arkansas
Fayetteville, Ark. 72701
Tel: (501) 575-3051

AREAS OF INTEREST: Agricultural, chemical, civil, electrical, industrial, and mechanical engineering; engineering science.

HOLDINGS: Reports, reprints, data.

PUBLICATIONS: Reports, reprints.

INFORMATION SERVICES: Answers inquiries; makes referrals; lends materials; permits onsite use of collection.

Graduate Institute of Technology

2409 University of Arkansas
P.O. Box 3017
Little Rock, Ark. 72203

Location:

1201 McAlmont St.
Little Rock, Ark.
Tel: (501) 375-7247

AREAS OF INTEREST: Analytical chemistry, including electroanalytical, spectrophotometry in ultraviolet and visible regions, polarography, process control, contamination, and pollution; inorganic chemistry, including catalysis, solid state chemistry, inorganic synthesis, surface properties of charcoal, aluminum oxide, and new products in petroleum and plastics industries; organic chemistry, including amino acids and gas and liquid-solid chromatography; physical chemistry, including kinetics, glass electrode, and radiation chemistry; electronics and instrumentation; instrumental sciences, including mass spectrometry, electron photoemission, modern electrochemistry, cold sources of electrons, water quality monitoring, chromatographic detectors, instrumental applications of lasers, holography, measurement of gas turbulence, charged particle detection, shaft position measurement, ion and electron ballistics, microelectronics, water resources research, fluidics, and chronopotiometry; engineering, including elasticity and viscoelasticity, structural analysis, elastic vibrations, soil mechanics, environmental control, and operations research; applied mathematics, including applied statistics, functional analysis, numerical analysis, linear transform theory, nonlinear systems, computer techniques, and sunspot predictions.

HOLDINGS: 15,000 books; 4,000 bound periodicals.

PUBLICATIONS: 4 textbooks; 85 articles in professional journals; 34 technical reports, including progress reports on research grants and contracts.

INFORMATION SERVICES: Answers inquiries; performs research and provides consulting and data processing services for fee; permits onsite use of literature collection.

Facilities include testing and recording equipment, extensive electronic capability laser and optical facilities, computers, model shop, process control equipment, schlieren index of refraction apparatus, high vacuum systems, metal sublimation system, mass spectrometers, gas and liquid-solid chromatographs, and spectrophotometers.

Industrial Research and Extension Center

Business and Technical Services Division

2410 Industrial Research and Extension Center
University of Arkansas
P.O. Box 3017
Little Rock, Ark. 72203

Location:

1201 McAlmont St.
Little Rock, Ark.
Tel: (501) 376-4456

AREAS OF INTEREST: Business; management; technology.

HOLDINGS: 500 books; 50 periodical titles; 500 reports.

PUBLICATIONS: Research memorandums and reports; annual report.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; provides filming and reproduction services on fee basis; lends materials; conducts noncredit management training courses, technical seminars, and workshops on fee basis. Services are available to anyone in Arkansas.

Facilities include a microfilm reader-printer and camera-processor (aperture cards).

Technology Campus Library

2411 University of Arkansas
1201 McAlmont St.
Little Rock, Ark. 72203
Tel: (501) 374-1333

AREAS OF INTEREST: Chemistry; education; electronics; instrumentation; engineering; mathematics; physics.

HOLDINGS: 11,230 books; 4,336 journals; 7 vertical file drawers of pamphlets, documents, and clippings.

INFORMATION SERVICES: Answers inquiries; provides reference services; provides duplication services for fee; makes interlibray loans.

Water Resources Research Center

2412 University of Arkansas
Fayetteville, Ark. 72701
Tel: (501) 575-4404

AREAS OF INTEREST: Water resources; streamflow; virus movement through soil and its effect on ground water; aquatic ecology; electronic monitoring of water quality; waste disposal; pollution control; mathematical modeling.

INFORMATION SERVICES: Answers brief technical inquiries; makes referrals.

UNIVERSITY OF CALIFORNIA

Sanitary Engineering Research Laboratory

2413 University of California
Richmond, Calif. 94801
Tel: (415) 235-6000 Ext. 225

AREAS OF INTEREST: Sanitary engineering, including water resources; waste water treatment and disposal; water pollution control; radioactive wastes treatment and disposal; solid wastes management; air pollution problems.

PUBLICATIONS: *News Quarterly*; technical reports of Laboratory projects.

INFORMATION SERVICES: Answers inquiries; makes reports available on request.

Water Resources Center

2414 University of California
Los Angeles, Calif. 90024
Tel: (213) 825-3421

Water Resources Center Archives--Los Angeles

University of California
Los Angeles, Calif. 90024
Tel: (213) 825-3421

Water Resources Center Archives--Berkeley

University of California
Berkeley, Calif. 94720
Tel: (415) 642-2666

Water Demineralization Research Facilities

Sea Water Conversion Laboratory
University of California
1301 South 46th St.
Richmond, Calif. 94804
Tel: (415) 525-4990 Ext. 237

Saline Water Conversion Laboratory
School of Engineering and Applied Science
University of California
Los Angeles, Calif. 90024
Tel: (213) 825-2636

Sea Water Conversion Facility
Bodega Marine Laboratory
Box 247
Bodega Bay, Calif. 94923
Tel: (707) 875-3511 (Bodega Bay)
(415) 642-6000 Ext. 123 (Berkeley)

AREAS OF INTEREST: All aspects of water research, including saline water conversion, hydrology, hydraulics, water quality control, evapotranspiration, water economics, water law, and history of water resources. Studies at the Sea Water Conversion Laboratory at Richmond cover distillation processes, electrodialysis, sea water evaporation by immiscible liquid heat transfer, ion exchange, freeze separation, and evaporator design. Studies at the Saline Water Conversion Laboratory at Los Angeles concern the reverse osmosis process, scale control in evaporation equipment, corrosion, and mass transfer equipment. The Sea Water Conversion Facility at Bodega Bay conducts research dealing with the use of reverse osmosis process for desalting sea water.

HOLDINGS: An extensive collection of papers, books, and manuscripts of scientific and historical interest presented to the Center by experts in the water field is maintained by the Water Resources Center Archives, Berkeley and Los Angeles. The Sea Water Conversion Laboratories and the Conversion Facility also house their own research data and reference materials.

PUBLICATIONS: The Water Resources Center issues the following publications: *Contribution Series* and *Sea Water Conversion Series*, presenting results of recent research; *Miscellaneous Series*, pamphlets prepared for the general public; *Report Series*, containing conference and research summaries; and *Archives Series*, consisting of bibliographies based on the collections of the Water Resources Center Archives. Single copies of most publications are available free on request.

INFORMATION SERVICES: The Center answers inquiries without charge concerning its research program and the activities of the water demineralization laboratories and makes referrals to other organizations and specialists. The Archives perform literature searches, prepare state-of-the-art reviews and special bibliographies, and permit onsite use of the collections by appointment; materials held in duplicate may be borrowed.

UNIVERSITY OF CALIFORNIA, BERKELEY

California Agricultural Experiment Station

2415 University of California
2200 University Ave.
Berkeley, Calif. 94720
Tel: (415) 642-3235

AREAS OF INTEREST: General agriculture; soil surveys; citrus fruits.

PUBLICATIONS: *California Agriculture* (monthly); *Hilgardia* (irregular); *Giannini Monographs* (irregular); bulletins, circulars, conference proceedings.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

Units of the California Agricultural Experiment Station are located at the College of Agricultural Sciences, School of Forestry and Conservation, Berkeley; College of Agricultural and Environmental Sciences, School of Veterinary Medicine, Davis; and College of Biological and Agricultural Sciences, Citrus Research Center, Riverside.

Computer Center

2416 University of California
Berkeley, Calif. 94720
Tel: (415) 642-0851 or 642-5205

AREAS OF INTEREST: Computer processing, programming, and equipment, and research in these fields.

HOLDINGS: Books, journals, computer programs.

PUBLICATIONS: *Newsletter* (semimonthly); *Project Abstracts* of student and faculty research, in various fields, which involves computer processing; technical reports (irregular); manuals on programming for the Center's computers.

INFORMATION SERVICES: Provides documentation and indexes of computer programs generated locally or obtained from other sources, primarily other universities; permits onsite use of collection.

Facilities include CDC 6400 and IBM 360/40 computers.

General Library

2417 University of California
Berkeley, Calif. 94720
Tel: (415) 642-2374

AREAS OF INTEREST: The General Library, together with its branch libraries, provides all-inclusive subject coverage.

HOLDINGS: 3,512,891 volumes; 78,665 serial titles currently received; a comprehensive collection of U.S. Government documents, for which the Library is a depository. (These are the total holdings of the General Library, including the holdings of its branch libraries.)

INFORMATION SERVICES: The General Library and its branch libraries answer inquiries, provide reference services, and make interlibrary loans. The collections are accessible to the University community, to faculty of all institutions of higher learning in California, and for a fee to other users. Availability of material for direct loan depends upon the qualifications of the requester and the kind of material asked for. Branch libraries specializing in subjects pertinent to this directory are listed below.

Astronomy- Mathematics- Statistics Library

2418 University of California
113 Campbell Hall
Berkeley, Calif. 94720
Tel: (415) 642-3381

AREAS OF INTEREST: Astronomy; astrophysics; computer sciences; pure and applied mathematics; mathematical statistics; mathematical tables.

HOLDINGS: 26,017 volumes; 850 serials.

Chemistry Library

2419 University of California
100 Hildebrand Hall
Berkeley, Calif. 94720

Tel: (415) 642-3753

AREAS OF INTEREST: Chemistry, chemical engineering, and some material on biochemistry and crystallography.

HOLDINGS: 19,388 volumes; 367 serials; 5,614 thermo and nuclear data cards; U.S. chemical patents on microcards and microfiche.

Earth Sciences Library

2420 University of California
230 Earth Sciences Bldg.
Berkeley, Calif. 94720
Tel: (415) 642-2997

AREAS OF INTEREST: Physical geography, including cartography, elementary meteorology, photogrammetry, and techniques of physiography; geology, including crystallography, geochemistry, geophysics, petroleum geology, and seismology; paleontology, including vertebrate and invertebrate paleontology and some anthropological material.

HOLDINGS: 44,660 volumes; 1,023 serials; 22,283 geologic maps; 7,226 fossil pollen bibliography cards.

Engineering Library

2421 University of California
410 O'Brien Hall
Berkeley, Calif. 94720
Tel: (415) 642-3339

AREAS OF INTEREST: Aeronautical engineering; civil engineering; electrical engineering; electronics engineering; engineering design; industrial engineering; irrigation engineering; materials science; mechanical engineering; mineral technology; nuclear engineering; naval architecture; process engineering; operations research; applied physics; biomedical engineering; geological engineering; oceanographic engineering.

HOLDINGS: 66,393 volumes; 1,712 serials.

Physics Library

2422 University of California
351 Le Conte Hall
Berkeley, Calif. 94720
Tel: (415) 642-3122

AREAS OF INTEREST: Physics, crystallography, and some material on upper-atmosphere research (excludes most material on astrophysics, geophysics, medical physics, meteorology, microwaves, radar, radio, and material in some fields of applied physics).

HOLDINGS: 16,063 volumes; 212 serials.

Institute of Transportation and Traffic Engineering

Vehicle Technology Facility

2423 Institute of Transportation and Traffic
Engineering
University of California
1301 South 46th St.
Richmond, Calif. 94804
Tel: (415) 235-6000 Ext. 311

AREAS OF INTEREST: Illumination; vehicle safety; fog studies; vehicle lighting systems; aircraft landing aids; simulated automotive crash studies; visual navigational aids.

HOLDINGS: Small collection of research reports and technical and trade journals.

PUBLICATIONS: Research project reports, bibliographies, motion pictures, computer programs for special illumination data reduction.

INFORMATION SERVICES: Answers inquiries; provides reference, consulting, and bibliographic services. Services are provided free or for a fee, depending on the nature of the request.

Facilities include a laboratory structure equipped for full-scale artificial fog studies, an illumination laboratory equipped for all types of lighting and photometric investigations, a test facility for mechanical and environmental evaluation of automotive lighting and safety devices, and a research and test facility for simulated full-scale automotive crash studies.

Library

2424 Institute of Transportation and Traffic
Engineering
University of California
1301 South 46th St.
Richmond, Calif. 94804
Tel: (415) 235-6000 Ext. 264

AREAS OF INTEREST: Highway and air transportation; highway and airport design and engineering; traffic engineering; city planning; highway economics; air pollution; mass transit; regional planning; operations research; human factors; traffic safety.

HOLDINGS: 13,780 books; 565 periodical titles; 18,280 reports; 16,000 pamphlets; films, slides, newspaper clippings, data.

PUBLICATIONS: Accessions lists (irregular); bibliographies.

INFORMATION SERVICES: Answers inquiries; provides reference and limited literature-searching services; provides duplication services for fee; makes referrals; makes interlibrary loans; permits onsite reference. Services are primarily for University students and staff, but are also available to others as time permits.

Lawrence Radiation Laboratory

Berkeley Particle Data Center

2425 Lawrence Radiation Laboratory
University of California
Berkeley, Calif. 94720
Tel: (415) 843-2740 Ext. 6301

AREAS OF INTEREST: Data on "elementary" particles and resonant states; properties of leptons, mesons, and baryons; cross sections, mass spectra, polarizations, angular distributions, etc. of elementary particle interactions.

HOLDINGS: Data.

PUBLICATIONS: Reviews (annually) on particle properties in *Reviews of Modern Physics* and *Physics Letters*; technical reports (about 4-6 per year); summary tables, data booklets.

INFORMATION SERVICES: Lists, references, averages, and summarizes data on current basis. Services are available to the technical community.

Information Integration Group

2426 Bio-Medical Division
Lawrence Radiation Laboratory
University of California
Livermore, Calif. 94550
Tel: (415) 447-1100 Ext. 8351

AREAS OF INTEREST: Implications of radionuclide releases into the biosphere by nuclear explosive devices and other nuclear activities; prediction of distribution within the biosphere and particularly in man subsequent to release; development of countermeasures.

PUBLICATIONS: State-of-the-art reviews, data.

INFORMATION SERVICES: Answers inquiries as workload permits. Services are primarily for Government agencies and their contractors.

Inorganic Materials Research Division

2427 Lawrence Radiation Laboratory
University of California
Building 62, Room 207
Berkeley, Calif. 94720
Tel: (415) 843-2740 Ext. 6062

AREAS OF INTEREST: Inorganic materials; nuclear engineering; metallurgy; ceramics; physical and inorganic chemistry; electrochemistry; lasers and solid state physics.

HOLDINGS: Reports, books, journals, abstracts, indexes.

PUBLICATIONS: Annual report; proceedings of symposium (held every 2 years); brochures detailing work of Division; preprints of journal articles.

INFORMATION SERVICES: Answers inquiries; permits onsite use of literature collection.

Physical Data Group

2428 Lawrence Radiation Laboratory
P.O. Box 808
Livermore, Calif. 94551
Tel: (415) 447-1100 Ext. 8583

AREAS OF INTEREST: Neutron and photon cross-section data required for weapons, weapon effects, shielding, and reactor calculations (experimental and evaluated data); static and dynamic parameters of critical assemblies and bulk experiments relating to neutron multiplication and transport; development of advanced processing codes for producing constants required for neutronic and photonic codes, making use of latest generation computational facilities.

PUBLICATIONS: State-of-the-art reviews, data compilations.

INFORMATION SERVICES: Answers inquiries, primarily for Government agencies and their contractors, and for others as workload permits.

Thermodynamic Properties of Metals and Alloys

2429 Hearst Mining Bldg.
Lawrence Radiation Laboratory
University of California
Berkeley, Calif. 94720
Tel: (415) 642-3817

AREAS OF INTEREST: Thermodynamic data for all metals, their alloys, and some related semimetallic systems.

PUBLICATIONS: Data compilations and multilith sheets containing new data (organizations can be placed on distribution lists for the sheets).

INFORMATION SERVICES: Answers inquiries and supplies bibliographies pertaining to specific systems and specific properties. Services are available to Government agencies, their contractors, qualified laboratories, research and educational institutions, and industry.

School of Criminology

2430 University of California
LSB 2534
Berkeley, Calif. 94720
Tel: (415) 642-4421 or 642-4001

AREAS OF INTEREST: Criminalistics; criminology.

PUBLICATIONS: *Issues in Criminology* (graduate student journal).

INFORMATION SERVICES: Answers inquiries; makes referrals. Faculty members provide consulting services on individual basis.

Facilities include a computer center on campus for research and data processing and basic facilities and instruments for crime investigation.

Seismographic Stations

2431 University of California
475 Earth Sciences Bldg.
Berkeley, Calif. 94704
Tel: (415) 642-3977

AREAS OF INTEREST: Seismology, including seismic wave interpretation, reports on earthquake damage, seismic sea waves, and related phenomena; geophysical instrumentation; data processing; geophysical exploration; earthquake geology; seismic history of California; solid-earth geophysics.

HOLDINGS: 110,000 seismograms; 20 magnetic tapes of earthquakes; 21,800 worldwide earthquake observatory reports; 2,000 microfilms of seismograms; 100 photos; 300 slides; 20,000 punched cards; 80 graphs and tables; felt-report clippings, California seismicity on magnetic tape; 6 movies on earthquakes.

PUBLICATIONS: *Bulletin of the Seismographic Stations* (biannual); *Air Letter* (every 20 days).

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides magnitude and epicentral location of large earthquakes to State and Federal agencies; provides consulting services on individual basis; conducts public and school tours.

UNIVERSITY OF CALIFORNIA, DAVIS

Department of Water Science and Engineering

2432 University of California
Davis, Calif. 95616
Tel: (916) 752-0453

AREAS OF INTEREST: Water development and distribution (hydrologic and meteorological analysis, watershed management, and hydraulic engineering applied to improvement of the supply and distribution of water); water quality and pollution (chemical, physical, and biological processes that determine water quality, and its improvement for a livable environment for man, animals, and plants); water utilization and management (use and management of water in agricultural production and environmental control, including drainage and disposal of nonreusable water).

HOLDINGS: 2,000 books and periodicals.

PUBLICATIONS: Bulletins, circulars, Hilgardia, California Agriculture, series; Water Science and Engineering and Water Resources Center series; papers.

INFORMATION SERVICES: Answers inquiries; makes materials available on request. Individual staff members may provide consulting services.

The Department maintains a soil preparation laboratory, water quality laboratories, soil physics laboratory, hydraulics laboratory, irrigation management laboratory, soil-water-plant relations laboratory, greenhouse, 80-acre field research area, and a micrometeorology station.

UNIVERSITY OF CALIFORNIA, LOS ANGELES

Chemistry Library

2433 University of California
405 Hilgard Ave.
Los Angeles, Calif. 90024
Tel: (213) 825-3342 or 825-3254

AREAS OF INTEREST: Analytical, organic, inorganic, physical, nuclear, radiation, and polymer chemistry; biochemistry; electrochemistry; thermodynamics; quantum mechanics; toxicology; crystallography; history of chemistry.

HOLDINGS: 34,095 books; 790 current serials; special collection on history of chemistry; U.S. chemical patents on microcards; Sadtler standard spectra sheets; spectral cards and tapes; abstract cards of Gas Chromatography Abstract Service; translations of major Russian chemical journals; bound collection of University chemistry theses.

INFORMATION SERVICES: Permits onsite reference; provides duplication services.

Department of Mathematics Graduate Reading Room

2434 University of California
405 Hilgard Ave.
Los Angeles, Calif. 90024
Tel: (213) 272-8911 Ext. 3175

AREAS OF INTEREST: Pure and applied mathematics; numerical analysis; mathematical tables.

HOLDINGS: 5,252 books; 3,188 bound volumes of journals; 3,500 reports; 4 vertical files of reprints.

INFORMATION SERVICES: Permits onsite reference.

Engineering and Mathematical Sciences Library

2435 University of California
405 Hilgard Ave.
Los Angeles, Calif. 90024
Tel: (213) 825-4951

AREAS OF INTEREST: Astronomy, including gaseous nebulae, stellar interiors, exterior galaxies and binary stars, solar system, planetary physics, and celestial mechanics; engineering, including applied mechanics, astronautics, chemical, nuclear, thermal, electrical, mechanical, design, management, planning, electronics and electromagnetics, environmental systems, information systems, materials, structures, space/aeronautics, and computer technology; mathematics, including algebra, classical analysis, functional analysis, logic, geometry, topology, number theory, applied mathematics, numerical analysis, statistics, and probability; meteorology, including thermodynamic, dynamic, electrical, optical, and photochemical phenomena in the atmosphere.

HOLDINGS: 120,000 books; 6,000 current journals; 105,000 reports (full-size, unbound); 320,000 microcards and microfiche; 2,370 microfilm reels; 465 maps; reports by Atomic Energy Commission, National Aeronautics and Space Administration, and Rand Corporation; World Meteorological Organization's microcards on IGY data and IGC aerological data; translations of Russian journals.

PUBLICATIONS: *Periodical and Serial Holdings* (2d ed., July 1969).

INFORMATION SERVICES: Permits onsite reference; provides duplication services; lends materials to nonuniversity personnel for annual fee.

Geology-Geophysics Library

2436 University of California
405 Hilgard Ave.
Los Angeles, Calif. 90024
Tel: (213) 825-1055

AREAS OF INTEREST: Oceanography; economic geology; hydrology; soil science; physical and engineering geology; geophysics; mineralogy; petrology; geochemistry; space science; paleontology and stratigraphy; planetary physics.

HOLDINGS: 57,729 books; 1,783 current journals. The Library is the official Farmington Plan depository for current monographs of leading European countries in the fields of geology and paleontology.

INFORMATION SERVICES: Permits onsite reference; lends materials to nonuniversity personnel for annual fee.

Map Library

2437 University of California
405 Hilgard Ave.
Los Angeles, Calif. 90024
Tel: (213) 272-8911 Ext. 2279

AREAS OF INTEREST: Maps and related cartographic literature, with emphasis on the Pacific Ocean and islands, Africa, and Latin America.

HOLDINGS: 175,000 maps of all areas of the world; a large collection of map indexes and sales catalogs from official and private mapping agencies abroad; atlases, city plans of most cities in the world, nautical charts, aerial photographs; books, journals, and reports on cartography and map intelligence. The Library is a depository for the products of mapping agencies throughout the world, including the Army Map Service, the Naval Oceanographic Office, the Air Force Aeronautical Chart and Information Center, the Coast and Geodetic Survey, and the Geological Survey.

PUBLICATIONS: Technical reports, bibliography.

INFORMATION SERVICES: Answers inquiries; provides reference services; lends materials except those which are military restricted, classified, or rare and valuable; permits onsite use of collection. Noncampus users pay an annual fee for direct loans.

Physics Library

2438 University of California
405 Hilgard Ave.
Los Angeles, Calif. 90024
Tel: (213) 272-8911 Ext. 7553

AREAS OF INTEREST: Physics, with emphasis on nuclear physics; elementary particles; plasma physics; physical acoustics; solid state physics; spectroscopy; mathematical physics.

HOLDINGS: 20,500 books; 540 current journals; 3,000 current preprints on high energy physics.

INFORMATION SERVICES: Permits onsite reference; lends materials to nonuniversity personnel for annual fee.

UNIVERSITY OF CALIFORNIA, RIVERSIDE

Department of Soils and Plant Nutrition

2439 University of California
Riverside, Calif. 92502
Tel: (714) 787-5103

AREAS OF INTEREST: Chemistry of the soil; ion exchange equilibria; soil morphology, genesis, and classification; soil fertility and management; plant nutrition; plant physiology; soil aeration; irrigation principles and practices; soil water repellency; soil microbiology.

HOLDINGS: 500 books; 25 periodical titles; 1,000 reports; reprints of popular and technical reports on soils and plant nutrition (available on request).

INFORMATION SERVICES: Answers inquiries; provides consulting services; permits onsite use of collection. Services are free to nonprofit organizations and at cost by prior arrangement to others.

Physical Sciences Library

2440 University of California
Riverside, Calif. 92507
Tel: (714) 787-3227

AREAS OF INTEREST: Geology, including glacial, sedimentology petrology, mineralogy, hydrogeology, petroleum geology, paleontology, stratigraphy, geochemistry, geophysics, and oceanography; chemistry, including organic, physical, physical organic, chemical thermodynamics, chemical kinetics, chemical quantum mechanics, chemical statistical mechanics, and biochemistry; physics, including nuclear physics, mathematical physics, mechanics, thermodynamics and statistical mechanics, electromagnetism, solid state physics, quantum mechanics, particle and resonance physics, and biophysics; engineering, including aeronautical, environmental, mining, photogrammetric, marine, ceramic, petroleum, chemical, mechanical, electrical, civil, hydraulic, and highway.

HOLDINGS: 39,023 bound and cataloged volumes, including 20,527 journals, 13,641 books and series, and 4,855 document serials; 1,704 serial titles; 4,726 geologic maps; 227 reels of microfilm; 26 cartons of University of California Radiation Laboratory Reports (now partially bound); 12 shelves of mass spectra; 10 shelves of theses.

INFORMATION SERVICES: Makes interlibrary loans; provides duplication services; permits onsite reference; lends materials to those with fee library card.

Statewide Air Pollution Research Center

2441 University of California
Riverside, Calif. 92502
Tel: (714) 787-5123

AREAS OF INTEREST: Air pollution, including sources, standards and criteria, measurement methods, and control methods; photochemistry; aerosol technology; atmospheric interaction; effects of air pollution on plants, animals, and humans; social, economic, legal, and administrative aspects of air pollution.

HOLDINGS: 15,000 technical air pollution articles on microfilm.

PUBLICATIONS: *California Air Environment* (quarterly); technical articles, papers, and reports on air pollution topics.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reprints of technical articles by staff members free; permits free access to microfilm library; duplicates articles from microfilm for fee; performs analysis of atmospheric samples for fee.

UNIVERSITY OF CALIFORNIA, SAN DIEGO

Scripps Institution of Oceanography

Bathythermograph (BT) Data Processing and Analysis Facility

2442 Scripps Institution of Oceanography
8602 La Jolla Shores Dr.
La Jolla, Calif. 92037
Tel: (714) 453-2000

AREAS OF INTEREST: Oceanographic data, including bathythermograph temperature, surface temperature, tide, and salinity data.

HOLDINGS: 650,000 bathythermograph temperature data of the Pacific and Indian Oceans from 1941 to date; 400,000 surface temperature observations collected at shore stations on the west coast of North America from 1916 to date, tide records for the Scripps Pier at La Jolla, Calif., from 1924 to date; 50,000 hydrographic station data, such as temperature, salinity, and chemical determinations for the Pacific Ocean.

PUBLICATIONS: Temperature charts in atlas form.

INFORMATION SERVICES: Provides reference and consulting services. Data are made available to Federal and State Government agencies and to oceanography departments or laboratories of educational and research institutions.

Data Collection and Processing Group

2443 Scripps Institution of Oceanography
8602 La Jolla Shores Dr.
La Jolla, Calif. 92037
Tel: (714) 453-2000

AREAS OF INTEREST: Physical and chemical oceanographic data, with emphasis on the northeastern Pacific.

HOLDINGS: Data in graphical and/or card decks collected on more than 20,000 oceanographic stations.

PUBLICATIONS: Physical and Chemical Data Reports; atlases of physical, chemical, and biological distributions.

INFORMATION SERVICES: Makes data available to Federal and State Government agencies and to oceanography departments or laboratories of educational and research institutions; provides consulting and reference services.

Marine Geological Collection

2444 Scripps Institution of Oceanography
8602 La Jolla Shores Dr.
La Jolla, Calif. 92037
Tel: (714) 453-2000

AREAS OF INTEREST: Sediment samples and dredged rocks from the ocean floor (especially the Pacific).

HOLDINGS: 5,000 samples.

INFORMATION SERVICES: Makes samples and lists of samples available to any recognized scientist or research institution.

University Libraries

Central Library

2445 University of California
P.O. Box 109
La Jolla, Calif. 92037
Tel: (714) 453-2000 Ext. 1985

AREAS OF INTEREST: Science and technology, including history of science.

HOLDINGS: 332,000 volumes; 5,000 serials. The Library is a depository for U.S. Government and California State documents.

INFORMATION SERVICES: Makes interlibrary loans; provides duplication services; permits onsite reference.

Science and Engineering Library

2446 University of California, San Diego
P.O. Box 109
La Jolla, Calif. 92037
Tel: (714) 453-2000 Ext. 1994

AREAS OF INTEREST: Aeronautics; [illegible]physics; atomic energy; chemistry; electronics; engineering; instrumentation; mathematics; missiles research; physics; space sciences.

HOLDINGS: 60,000 volumes; 2,500 serials.

INFORMATION SERVICES: Makes interlibrary loans; provides duplication services; permits onsite reference.

Scripps Institution of Oceanography Library

2447 P.O. Box 109
La Jolla, Calif. 92037
Tel: (714) 453-2000 Ext. 1982

AREAS OF INTEREST: Oceanography; marine biology; underseas technology; geology; geophysics.

HOLDINGS: 60,000 volumes; 3,500 serials.

INFORMATION SERVICES: Makes interlibrary loans; provides duplication services; permits onsite reference.

Visibility Laboratory

2448 University of California
Scripps Field Annex, Building 348

San Diego, Calif. 92152
Tel: (714) 453-2000 Ext. 302

AREAS OF INTEREST: Atmospheric optics; hydrologic optics; photometry and radiometry; visual psychophysics; visibility calculations; image processing.

HOLDINGS: Technical reports.

PUBLICATIONS: Technical papers and reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services. Services are available to anyone having adequate and resonable need, and are free, unless extensive.

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

Sciences-Engineering Library

2449 University of California
Santa Barbara, Calif. 93106
Tel: (805) 961-2647 (Head)
(805) 961-2765 (Reference Service)
(805) 961-2779 (Map Room)

AREAS OF INTEREST: Oceanology and oceanography; general science; mathematics; astronomy; physics; meteorology; chemistry; geology; marine science; environmental sciences; biological sciences; natural history; botany; zoology; human anatomy; physiology; microbiology; medicine; forestry; animal culture; fish culture and fisheries; technology; general engineering; hydraulic engineering; sanitary and municipal engineering; roads and pavements; railroad engineering; structural engineering; mechanical engineering; electrical engineering; motor vehicles; aeronautics and astronautics; mining and metallurgy; nuclear and chemical engineering; photography; textiles; consumer education; home management; foods and nutrition; military and naval sciences.

HOLDINGS: 104,000 volumes, including monographic works; approximately 3,200 periodical titles; abstracts, indices, bibliographies, literature guides, and supporting reference materials. A collection of 107,000 maps and 850 volumes of atlases and supporting research works are available in the map room.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite reference to all materials, most of which are housed in open stacks. Reference materials do not circulate.

UNIVERSITY OF CHICAGO

Department of Geography

2450 University of Chicago
Chicago, Ill. 60637
Tel: (312) 643-0800 Ext. 3921
(312) 643-0800 Ext. 3447 (Rosenwald Library)
(312) 643-0800 Ext. 3448 (Map Library)

AREAS OF INTEREST: Geography; water resources, including management, flood plain occupance, river basin planning, and irrigation; physical geography, including geomorphology, pleistocene geography, and use of arid and semiarid lands.

HOLDINGS: The Rosenwald Library has 52,000 volumes covering geography, geology, and meteorology; the Map Library has 216,000 maps.

PUBLICATIONS: *Research Papers* (several each year; a list is available); Goode Base Map Series (a list is available).

INFORMATION SERVICES: Answers scholarly inquiries but does not have staff for providing general information.

Division of the Physical Sciences

2451 University of Chicago
1118 East 58th St.
Chicago, Ill. 60637
Tel: (312) 667-4700 Ext. 8021

AREAS OF INTEREST: Astronomy; chemistry; geophysical sciences; mathematics; physics; statistics; information sciences.

HOLDINGS: 50,000 books; 1,000 periodical titles; reports.

PUBLICATIONS: *The Astrophysical Journal* (monthly) and a supplement series; *Journal of Geology* (bimonthly).

INFORMATION SERVICES: Answers inquiries; provides advisory services. Consulting services are provided by private contracts with individual faculty members.

Laboratory for Atmospheric Probing

2452 Department of Geophysical Sciences
University of Chicago
Chicago, Ill. 60637
Tel: (312) 667-4700

AREAS OF INTEREST: Radar meteorology; cloud and precipitation physics; clear air turbulence; severe storms.

HOLDINGS: Reports.

PUBLICATIONS: Reports, papers in scientific journals.

INFORMATION SERVICES: Answers inquiries; provides consulting services for fee.

The James Franck Institute

2453 University of Chicago
5640 Ellis Ave.
Chicago, Ill. 60637
Tel: (312) 667-4700

AREAS OF INTEREST: Chemistry; physics; cryogenics; metallurgy; mechanics of solids, metals, and X-ray diffraction; high pressure and low temperature laboratories; materials preparation equipment.

HOLDINGS: 7,500 books; 150 periodical titles; 300 reports.

PUBLICATIONS: *Quarterly Report of Abstracts.*

INFORMATION SERVICES: Makes direct and interlibrary loans.

UNIVERSITY OF CINCINNATI

Institute for Urban Information Systems

2454 University of Cincinnati
138 West University Ave.
Cincinnati, Ohio 45221
Tel: (513) 475-3649

AREAS OF INTEREST: Development of a primary urban information system; establishment of an integrated metropolitan data bank for reporting and research on social, physical, and economic variables; large scale file maintenance and retrieval, graphic display by computer, and extended statistical analysis; computer technology assistance and consultation to public and voluntary agencies involved in information systems.

HOLDINGS: Computer program library, magnetic tapes, punched cards, optical scan files, maps, charts, graphs, tables, bibliographies, research reports, data compilations, statistical summaries.

PUBLICATIONS: Periodical reports drawn from data bank.

INFORMATION SERVICES: Provides information tailored to specific requests on urban variables; provides consulting services and assistance to aid local organizations in developing information systems and data processing skills; provides research consultation on use of data processing in field studies; provides contracted analyses of urban data; constructs analytical models for system participants. Services are available to organizations directly involved with urban and regional development, including governmental and voluntary groups. Some services are on a contract basis; others are free in return for data contributions or research services.

Tanners Council Research Laboratory

2455 University of Cincinnati Campus Station
Cincinnati, Ohio 45221
Tel: (513) 281-8501

AREAS OF INTEREST: Leather chemistry and technology; interdisciplinary studies on skins and hides.

HOLDINGS: Books.

PUBLICATIONS: *Reports and Papers of the Laboratory* (9 vols., 1924-1965).

INFORMATION SERVICES: Answers inquiries on skin, hide, and leather; identifies skin or hide source of leathers and cause of defects in skin, hide, and leather.

UNIVERSITY OF COLORADO

Engineering Research Center

2456 College of Engineering
University of Colorado
Boulder, Colo. 80302
Tel: (303) 443-2211

AREAS OF INTEREST: Aerospace engineering sciences, including fluid mechanics, plasma physics, and orbital mechanics; architectural engineering; chemical engineering, including catalysis, air pollution and ecological studies, bioengineering, controls, cryogenics, and polymeric materials; civil engineering, including urban studies and structural mechanics, hydraulics, water resources, and soils engineering; electrical engineering, including power, communications, computers, solid state physics, and electronics; engineering design and economic evaluation, including photoelasticity, plastics technology, and servo-mechanisms; engineering physics; mechanical engineering, including continuum mechanics; numerical analysis; industrial development and utilization of natural resources.

HOLDINGS: The Center's holdings are maintained in the College of Engineering Library and the main University Library.

PUBLICATIONS: *Progress News* (monthly); *Research Newsletter* (monthly); *Engineering Interaction* (quarterly).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

Institute of Arctic and Alpine Research (INSTAAR)

2457 University of Colorado
Boulder, Colo. 80302
Tel: (303) 443-2211 Ext. 6387

AREAS OF INTEREST: Environmental processes in arctic and alpine regions; alpine and arctic geomorphology, glaciology, glacial geology, ecology, biology, palynology, dendrochronology, climatology, permafrost, anthropology, and archeology; Colorado Rocky Mountains, with particular emphasis on Front Range, Baffin Island, Labrador-Ungava, and northern Keewatin.

HOLDINGS: Over 800 books; 25 periodicals; 1,000 pamphlets; 100 maps; reprints, papers.

PUBLICATIONS: *Arctic and Alpine Research* (quarterly).

INFORMATION SERVICES: Answers inquiries; makes referrals.

Facilities include palynology and geomorphology laboratories on the Boulder campus, an alpine laboratory with visiting researcher accommodations and specialized vehicles at the Mountain Research Station situated at 9,600 feet on east slope of Front Range 25 miles west of Boulder, and four climatological stations maintained at 7,200, 8,500, 10,000, and 12,300 feet since 1952.

Joint Institute for Laboratory Astrophysics Information Center

2458 University of Colorado
Boulder, Colo. 80302
Tel: (303) 447-1000 Ext. 3649

AREAS OF INTEREST: Data on collisions between electrons, photons, ions, atoms, and molecules of interest to aeronomy, plasma physics, and astrophysics; techniques for measurement of low energy atomic collision properties.

PUBLICATIONS: Bilbiographies, critical reviews, data compilations.

INFORMATION SERVICES: Answers inquiries.

Laboratory for Atmospheric and Space Physics

2459 University of Colorado
Boulder, Colo. 80302
Tel: (303) 443-2211 Ext. 7501

AREAS OF INTEREST: Solar ultraviolet radiation; earth's upper atmosphere; interplanetary physics; planetary atmospheres.

HOLDINGS: The Laboratory's holdings are maintained in the University Library.

PUBLICATIONS: Technical reports, bibliographies.

INFORMATION SERVICES: Answers certain technical inquiries; makes referrals; provides abstracting and indexing services; provides consulting services for fee; conducts seminars. Services are available to scientists only, except the seminars, which are open to the public.

Nuclear Physics Laboratory

2460 University of Colorado
Boulder, Colo. 80302
Tel: (303) 443-2211 Ext. 7483

AREAS OF INTEREST: Nuclear physics; nuclear structure; charged particle reactions; gamma-ray spectroscopy; fast neutron time-of-flight spectroscopy.

HOLDINGS: Nuclear cross-section data for various isotopes; various periodicals in the area of nuclear physics; abstracts and indexes. The Laboratory also uses the collections of the University Library.

PUBLICATIONS: Annual progress report; technical articles in scientific periodicals.

INFORMATION SERVICES: Answers technical inquiries from scientists.

Facilities include a cyclotron delivering proton beams up to 29 MeV, deuteron beams to 18 MeV, 3He beams to 43 MeV, and 4He beams to 36 MeV; also, a PDP-9 computer, a laboratory mass separator, a magnetic electron spectrometer, a gamma spectrometer, a fast neutron time-of-flight facility, a quadrupole charged particle spectrometer, and a solid state detector fabrication facility.

University Libraries

Science and Technology Libraries (Boulder Campus)

2461 University of Colorado Libraries
Boulder, Colo. 80302
Tel: (303) 443-2211 Ext. 7258 (Main
Science Library)

AREAS OF INTEREST: General science; mathematics; physics; astrophysics; engineering; chemistry; earth sciences; life sciences; pharmacy; psychology.

HOLDINGS: 175,000 books; 2,200 journal titles; 50,000 map sheets; Government reports (held in Government Document Division, Norlin Library); special collection on historical metallurgy (held in Rare Books Room, Norlin Library).

INFORMATION SERVICES: Provides duplication services for fee; makes interlibrary loans, except of journals and maps; permits onsite reference.

University Museum

2462 University of Colorado
Broadway between 15th and 16th Sts.
Boulder, Colo. 80302
Tel: (303) 443-2211 Ext. 6165

AREAS OF INTEREST: Natural history of Colorado and the Rocky Mountain region; North American Indian cultures, particularly those of the prehistoric Southwest and the Rocky Mountain region; mineralogy; geology; paleontology; botany; zoology; anthropology; ethnography; archeology, especially of the southwestern United States; history; art; academic courses in museology; training in museum techniques.

HOLDINGS: 1.5 million specimens, including fossils, minerals, rocks, shells, sea animals, insects, fishes, amphibians, reptiles, birds, mammals, plants, pottery, paintings, and sculpture; a library of books, journals, reports, films, photos, maps, and charts.

PUBLICATIONS: Leaflets, pamphlets, guides.

INFORMATION SERVICES: Answers inquiries; provides reference and consulting services to students and researchers; lends materials to other institutions; permits onsite reference.

UNIVERSITY OF CONNECTICUT

Department of Chemistry

2463 University of Connecticut
Storrs, Conn. 06268
Tel: (203) 429-3311 Ext. 454

AREAS OF INTEREST: Analytical, polymer, inorganic, organic, and physical chemistry.

HOLDINGS: 500 books; 25 periodical titles.

PUBLICATIONS: Books, reports, journal articles.

INFORMATION SERVICES: Answers inquiries; provides consulting services. Services are provided free to Connecticut State agencies and any academic institutions, and at cost to others.

Institute of Water Resources

2464 University of Connecticut
Storrs, Conn. 06268
Tel: (203) 429-9321 Ext. 474

AREAS OF INTEREST: All aspects of the hydrologic cycle, including water quality, water quantity, properties of water, water transport, water conservation, socioeconomic aspects of water resources, and agricultural, domestic, industrial, municipal, and recreational uses of water in the State; effect of septic tank systems on water quality; response of fish to controlled levels of pollution; economic and legal aspects of water use; chemical properties of water; biological indicators of changes in water chemistry; erosion protection; ion-ion and ion-molecule interactions in aqueous salt solutions; variation in diatom morphology and water pollution; water quality control with synthetic polymeric flocculants; the quantity and movement of nitrates in soil water in two Connecticut soils treated with high and low levels of inorganic nitrogen fertilizer; oxygen status of soil air and soil water as influenced by oxygen transfer through soil profile; air oxidation of organic compounds in aqueous systems; measurement and analysis of natural-type surface roughnesses affecting fluid flow; an experimental study of air and water interfacial interaction; the velocity dependence of the total cross section for alkali-water scattering; chemical analysis and process classification of constituents of effluents (organic nitrogen in activated carbon effluents); hydrological analyses using atmospheric vapor data; development of instrumental techniques for the analysis of trace organic constituents in water; changes in resistance to flow of water through a soil-plant system; a study of the legal and administrative practices relating to lake pollution in the Northeast; structural aspects of amide-water systems; relative pollution strengths of undiluted waste materials discharged in households and dilution waters used for each; the evaluation of similarities of algal communities of artificial and natural substrates.

HOLDINGS: Books, periodicals, reports, pamphlets, maps, charts, graphs, tables, project records, photos, data.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services free or for fee, depending on the nature of the request; permits onsite reference.

New England Research Application Center

2465 Mansfield Professional Park
Storrs, Conn. 06268
Tel: (203) 429-5151

AREAS OF INTEREST: Physical, biological, and environmental sciences, and engineering.

HOLDINGS: NASA, Department of Defense, and American Society of Metals computerized files.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Performs retrospective and update (selective dissemination of information) searches for industrial and academic clients, principally in the northeastern States. These searches involve one or more of the following: mechanized retrieval from the inhouse tape files, manual searches in the Wilbur Cross Library of the University of Connecticut, and approaches to specialized information centers throughout the world.

Storrs Agricultural Experiment Station

2466 Storrs, Conn. 06268
Tel: (203) 429-3111 Ext. 474

AREAS OF INTEREST: Agricultural policy, marketing, and engineering; veterinary pathology; animal diseases, genetics, and husbandry; chemistry of dairy products; dairy technology; animal nutrition; human nutrition; home economics; plant genetics; agronomy; pomology; olericulture; ornamental horticulture; soil biophysics and chemistry; plant nutrition; climatology; wildlife management; poultry nutrition, genetics, physiology, and products; rural sociology; farm management; fresh water fishes; biochemistry of pesticides; agricultural labor; waste disposal; pollution control; environmental studies; developmental genetics; reproductive physiology; gerontology; forest recreation; limnology; demography; suburbanization.

PUBLICATIONS: *Milestones* (quarterly); research reports, bulletins, monographs.

INFORMATION SERVICES: Answers inquiries; makes referrals.

University Computer Center

2467 University of Connecticut
Storrs, Conn. 06268
Tel: (203) 429-3311 Ext. 729

AREAS OF INTEREST: Computers; computer programming; computer applications.

HOLDINGS: 190 books; 50,000 punched cards; 50 reels of magnetic tape; 1,100 computer programs; 12 magnetic disks; 40 volumes of computer program specifications.

INFORMATION SERVICES: Provides computer services at cost, including duplication of computer programs; permits onsite reference of computer programs.

Facilities include IBM 360/65 computer with 512K memory, drum and disks, and several remote terminals using Conversational Programming System.

UNIVERSITY OF DAYTON

Research Institute

2468 University of Dayton
300 College Park
Dayton, Ohio 45409
Tel: (513) 229-3711

AREAS OF INTEREST: Aerospace materials and related topics, including adhesives, aerodynamics, aircraft applications, atmospheric sciences, ceramics, cermets, chemical analysis, chemistry, coatings, composites, elastomers, electrical materials, electronics, fuels, geosciences, graphites, hydraulic fluids, instrumentation, lasers, lubricants, machining, manufacturing methods, materials applications, materials research, materials in design, measurement, metallurgy, metals and alloys, nuclear technology, oils, physics, plastics, polymers, propellants, seals, semiconductors, space technology, space vehicle applications, and testing methods.

HOLDINGS: Technical reports, bibliographies, handbooks, symposium proceedings, state-of-the-art reports, computer programs, foreign translations.

INFORMATION SERVICES: Provides abstracts in response to search requests (documents are maintained at Wright-Patterson Air Force Base); provides reference and document services to the Air Force, other Government agencies, and their contractors upon approval by the sponsor.

UNIVERSITY OF DELAWARE

Agricultural Library

2469 University of Delaware
Agriculture Hall
Newark, Del. 19711
Tel: (302) 738-2530

AREAS OF INTEREST: Agriculture in general, including agricultural biochemistry, food technology, agricultural economics, agronomy, agricultural engineering, animal and poultry science, entomology, horticulture, plant pathology, and agricultural education and extension work.

HOLDINGS: 10,000 books; 300 periodical titles; Delaware Agricultural Experiment Station publications; U.S. Department of Agriculture publications.

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference.

College of Agricultural Sciences

2470 University of Delaware
Agricultural Station
Newark, Del. 19711
Tel: (302) 738-2502

AREAS OF INTEREST: Plant science; animal science; entomology and applied ecology; agricultural engineering; agricultural and food economics; water and air pollution; agricultural biochemistry.

HOLDINGS: Books, periodicals, technical reports.

PUBLICATIONS: Technical reports, bulletins, circulars.

INFORMATION SERVICES: Answers inquiries; permits onsite use of literature collection.

Delaware Agricultural Experiment Station and Extension Service

2471 College of Agricultural Sciences
University of Delaware
Newark, Del. 19711
Tel: (302) 738-2507

AREAS OF INTEREST: Plant science; agricultural engineering; agricultural and food economics; entomology; ecology; animal science; agricultural biochemistry; water and air pollution.

HOLDINGS: Books, periodicals, technical reports.

PUBLICATIONS: Technical reports and bulletins, circulars, specifications.

INFORMATION SERVICES: Answers inquiries; provides cooperative extension educational services.

Department of Mechanical and Aerospace Engineering

2472 University of Delaware
Newark, Del. 19711
Tel: (302) 738-2421

AREAS OF INTEREST: Heat transfer; thermodynamics; fluid mechanics; gas dynamics; vibrations; dynamics; solid mechanics; structures; materials science; mechanical engineering; aerospace engineering; ocean engineering; biomedical engineering; composite materials.

HOLDINGS: Reports.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Permits limited onsite use of collection.

Marine Laboratories

2473 University of Delaware
Newark, Del. 19711
Tel: (302) 738-2270

AREAS OF INTEREST: Coastal and marine environments; oceanography, with emphasis on coastal environments; marine science; aquatic biology; special interest in tidal marsh and estuarine productivity; marine physiology; fauna of the Delaware Bay; aquaculture; water pollution; toxic effects of detergents and other polluting agents; cooperative work with the College of Engineering, the College of Agriculture, and the Departments of Geology and Geography on problems dealing with usage of the Delaware estuary.

HOLDINGS: Project reports and research proposals. Extensive technical references are held in the Morris Library on the Newark campus and the library at the field station, including books, monographs, journals, abstract literature, and bibliographic aids.

PUBLICATIONS: A series of technical monographs. Most research results are published in journals.

INFORMATION SERVICES: Answers inquiries by telephone or letter. Staff members are available for consultation, for lectures, and as visiting scientists. The library is open to qualified scientists and reference service is provided. Material may be borrowed through interlibrary loan, and copies of reports and reprints dealing with research activities may be obtained free while the supply lasts. Duplication services are available at cost.

The Marine Laboratories maintain a field station at Lewes, Del.

Water Resources Center

2474 University of Delaware
Newark, Del. 19711
Tel: (302) 738-2440

AREAS OF INTEREST: Aquatic biology; aquatic ecology; aqueous solutions; aquifers; droughts; estuaries; evaporation; evapotranspiration; fluid mechanics; ground water; hydrodynamics; hydrogeology; hydrometeorology; irrigation; water pollution; precipitation; rain and rainfall; rivers; runoff; salt water intrusion; sewage treatment; soil-water relationships; solutes and solutions; streams; wastes; waste treatment; waste water; water law; water microbiology; water purification; water quality; water reclamation; water requirements; water use and reuse; watersheds; water supply; water treatment; wells.

HOLDINGS: Materials on water and water research are maintained in the University Library.

PUBLICATIONS: *Water Resources Center Contributions* contain reports of the Center's research projects; annual report. A complete publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals.

UNIVERSITY OF DENVER

Denver Research Institute

2475 University of Denver
Denver, Colo. 80210
Tel: (303) 753-2271

AREAS OF INTEREST: Chemistry and chemical engineering; physics; mathematics; mechanics; materials sciences and metallurgy; electronics; electromagnetic propagation; industrial economics; general microbiology; microbial ecology; waste disposal; nutrition; biochemistry; pollution; fermentation techniques; computer applications in all subjects and computer education.

HOLDINGS: Books, reports, periodicals, maps, charts, photos, slides, motion pictures, graphs, tables, standards and specifications, reprints, pamphlets, bibliographies, clippings, project records, microforms, tapes, reviews, abstracts, indexes, data.

PUBLICATIONS: Reports, reviews, proceedings, newsletters, reprints, pamphlets, press releases. Publication lists are available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, bibliographic, and duplication services; permits onsite use of literature collection; performs research for industry and Government on a nonprofit, cost-reimbursable basis.

The Institute has extensive facilities for research in the above areas of interest, including a Burroughs B5500 computer.

Science and Engineering Library

2476 2050 East Iliff
University of Denver
Denver, Colo. 80210
Tel: (303) 753-2338

AREAS OF INTEREST: Physics; chemistry; mathematics; metallurgy; chemical, civil, electrical, and mechanical engineering.

HOLDINGS: 25,000 books; 30,000 reports; 950 periodical titles.

INFORMATION SERVICES: Answers inquiries; makes referrals; makes interlibrary loans; makes direct loans to Denver area adults; provides duplication services; permits onsite reference.

UNIVERSITY OF FLORIDA

Architectural and Engineering Development Information Center for Civil Defense

2477 Engineering and Industries Bldg., Room 501
University of Florida
Gainesville, Fla. 32601
Tel: (904) 376-3261 Ext. 3436

AREAS OF INTEREST: Civil defense, stressing research materials, including protection studies (radiological, blast, thermal, chemical); shelter environment; subsistence and habitability (food, water, furnishings, medical); shelter management and organization; area-wide shelter systems; shelter development, test, and evaluation; radiological monitoring; communications and warning systems; reduction of vulnerability; emergency medical research; fire, rescue, and damage control; operations during emergency; radiological phenomena and effects; radiological countermeasures, procedures, and processes; repair and reclamation of damaged facilities and areas; postattack medical, health, and welfare operations; recovery and maintenance system studies (assessment of postattack environments, postattack sociological and psychological studies, management of postattack recovery operations); civil defense system analysis; organization and training research; public attitude studies.

HOLDINGS: 5,000 books and reports.

PUBLICATIONS: Abstracts, indexes, bibliographies.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference, literature-searching, and duplication services; makes interlibrary loans; permits onsite reference. Services are available to those working on research in civil defense or logically connected with civil defense in some other way.

Architecture and Fine Arts Library

2478 201 A-AFA
University of Florida
Gainesville, Fla. 32601
Tel: (904) 376-3261

AREAS OF INTEREST: Architecture, including landscape architecture; interior design; building construction; city and urban planning; housing; fine arts; music.

HOLDINGS: 25,000 volumes, including bound journals; 178 journal titles.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite reference.

Chemistry Library

2479 216 Leigh Hall
University of Florida
Gainesville, Fla. 32601
Tel: (904) 392-0573

AREAS OF INTEREST: All aspects of chemistry, including general, physical, organic and analytical, and inorganic and nuclear.

HOLDINGS: 6,100 books; 9,000 bound volumes of periodicals (275 periodical titles).

PUBLICATIONS: *The Biblio-File* (monthly), a newsletter of library and department news and announcements, including new acquisitions for each month, papers published by faculty of the Chemistry Department, and published books.

INFORMATION SERVICES: Provides reference services complete from ready reference to some literature searching; permits onsite reference.

Computing Center

2480 University of Florida
Box 3568, University Station
Gainesville, Fla. 32601
Tel: (904) 392-2061

The primary objective of the Computing Center is to encourage and support education and research in the scientific and business fields, particularly in those areas where the use of modern data processing can be of important advantage.

AREAS OF INTEREST: Mathematics: statistics, computer research.

HOLDINGS: A library of computer programs.

PUBLICATIONS: *Bits & Pieces* (monthly, free).

INFORMATION SERVICES: Provides consulting and computing services on a contractual basis.

Facilities include IBM 360/65 and 1401 electronic computers, 563 Calcomp Plotter, and other subsidiary equipment.

Department of Coastal and Oceanographic Engineering

2481 University of Florida
Building L
Gainesville, Fla. 32601
Tel: (904) 376-3261 Ext. 2473 or 2474

AREAS OF INTEREST: Engineering aspects of harbors, shorelines, coastal protection structures, hydraulics, sediment transport, water pollution, water instrumentation, hurricanes, and air-sea interaction.

PUBLICATIONS: Reports on Department investigations (a publications list is available).

INFORMATION SERVICES: The Department generally answers inquiries by providing publications (a nominal charge is made for some publications).

Facilities include a research laboratory with a wave tank, tilting flume, model slab, and wind-wave facility.

Department of Physics and Astronomy

2482 University of Florida
Gainesville, Fla. 32601
Tel: (904) 392-0521

AREAS OF INTEREST: Physics and astronomy. Experimental areas include radio astronomy (radio observations of the planets), optical astronomy (all aspects of eclipsing binary stars), cosmology (model clusters of galaxies, cosmological constant), atomic and atmospheric physics (electron excitation cross sections, ion--atom collisions, level-crossing spectroscopy, ion--molecule collisions), solid state physics (nuclear magnetic resonance, Fermi surface structure), low temperature physics (properties of liquid and solid He-3 and He-4, properties of superfluid helium), nuclear physics (radiative capture, double-scattering experiments), optics (optical materials and lasers), and plasma physics (rotating collisionless reflex plasmas in magnetic fields). Theoretical areas include atomic, molecular, and solid state physics (augmented plane wave method, Green's function methods, band theory, density matrix techniques), nuclear and meson physics (nucleon-nucleon interaction, self-consistent finite nucleon problem), statistical physics (thermodynamic properties of fluids including plasmas, spectral line broadening in plasmas, thermal conductivity), aeronomy (particle energy degradation in planetary atmospheres, radiative transfer), and elementary particle physics (dispersion relations).

HOLDINGS: *Card Catalogue of Eclipsing Variable Stars.*

PUBLICATIONS: Departmental brochure "Graduate Study in Physics and Astronomy" (annual), "Finding List of Eclipsing Binaries" (irregular), technical reports (irregular), Rosemary Hill Observatory Contributions (irregular).

INFORMATION SERVICES: Answers inquiries.

Facilities include a departmental machine shop, a 4-MeV pulsed, high-current Van de Graaff accelerator, a helium liquefier, an IBM system 360/65 computer, 30-inch and 12-inch reflecting astronomical telescopes, and a radio astronomical observatory.

Engineering and Physics Library

2483 410 Weil Hall
University of Florida
Gainesville, Fla. 32601
Tel: (904) 392-0987 or 392-0988

AREAS OF INTEREST: Physics, astronomy, meterology, nuclear physics, engineering, and all related phases.

HOLDINGS: 54,000 books and bound journals; 200,000 Atomic Energy Commission reports (the majority are microcard and microfiche copies).

PUBLICATIONS: Newsletter.

INFORMATION SERVICES: Makes interlibrary loans; provides duplication services; permits onsite reference.

Environmental Engineering Research Center

2484 College of Engineering
University of Florida
Gainesville, Fla. 32601
Tel: (904) 392-0834

AREAS OF INTEREST: Design, cost, and operation of sewage and industrial waste treatment facilities; design and construction of sanitary and storm-water sewerage systems; environmental biology; eutrophication of lakes and estuaries; cycling of organic matter in estuarine sediments; development of radiological techniques and analytical procedures for environmental engineering research; research in chemical aspects of water treatment and composition of natural waters; water quality in streams and estuaries; urban environmental problems; water resources planning; systems engineering and operations research in water resources engineering; stochastic processes in water resource systems; technology of water pollution and control; collection and disposal of solid wastes, with special emphasis on research related to compost and composting; air pollution research; human ecology.

HOLDINGS: Personal collection of faculty members. The Center also uses the collections of the University's Engineering and Physics Library.

PUBLICATIONS: The Center's publications are issued through the University's Engineering and Industrial Experiment Station.

INFORMATION SERVICES: Answers inquiries; makes referrals.

The Center has a new million-dollar building providing 34,000 square feet of classroom, laboratory, and office space to maintain training, research, and related administrative activities in a centralized location, and over $350,000 of equipment.

Florida Engineering and Industrial Experiment Station

2485 University of Florida
Gainesville, Fla. 32601
Tel: (904) 392-0941

AREAS OF INTEREST: Engineering and applied science, including aerospace, chemical, civil, coastal and oceanographic, electrical, engineering science and mechanics, environmental, industrial and systems, mechanical, metallurgical, materials, and nuclear engineering sciences.

PUBLICATIONS: *Engineering Progress at the University of Florida* (bulletins, technial papers, leaflets, and miscellaneous categories, published monthly); *Engineering Facts from Gatorland* (a 4 to 6 page bimonthly especially geared to College of Engineering alumni); special brochures; programs of conferences and short courses; conference proceedings; catalogs.

INFORMATION SERVICES: Answers requests for information; provides news stories of specific engineering interest to lay and technical publications. Inquiries should be directed to the Information and Publications Center, 331 Joseph Weil Hall, University of Florida, *tel:* (904) 392-0984.

Florida Water Resources Research Center

2486 220 Environmental Engineering Bldg.
University of Florida
Gainesville, Fla. 32601
Tel: (904) 392-0840

AREAS OF INTEREST: Water resources in Florida; aquatic biology; aquifers; canals; chlorination; corrosion; desalination; detergents in water; estuaries; eutrophication; evapotranspiration; fishkills; fluid mechanics; fluoridation; ground water; hydrogeology; irrigation; limnology; pesticides in water; sewage treatment; sewers and sewerage; soil-water relationships; streams; wastes and waste treatment; water analysis; water chemistry; water compacts; water conservation; water cycle; water economics; water law; water pollution; water purification; water quality; water use and reuse; water rights; water softening; water supply; waterways; wells.

HOLDINGS: An extensive reference library of technical reports, standards and specifications, books and monographs, journals, abstract literature, bibliographies, and other published material.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; provides consulting and duplication services (a fee is charged for extensive services); makes referrals; makes interlibrary loans; permits onsite use of literature collection.

Institute of Food and Agricultural Sciences

Florida Agricultural Experiment Stations

2487 Institute of Food and Agricultural Sciences
University of Florida
Gainesville, Fla. 32601
Tel: (904) 392-1784

AREAS OF INTEREST: General agriculture; agronomy; animal science; dairy science; food science; fruit crops, including citrus fruits; forestry; ornamental horticulture; plant pathology; poultry science; soils; agricultural economics; agricultural engineering; bacteriology; entomology; vegetables; botany; livestock veterinary science and medicine; meteorology; weather forecasting.

HOLDINGS: The Experiment Stations use the collections of the Institute of Food and Agricultural Sciences' Hume Library.

PUBLICATIONS: *Sunshine State Agricultural Research Report*; technical reports, bulletins. A list of bulletins is available.

INFORMATION SERVICES: Provides consulting services.

UNIVERSITY OF GEORGIA

Center for Management Systems Development and Analysis

2488 Graduate School of Business Administration
University of Georgia
Athens, Ga. 30601
Tel: (404) 542-3521

AREAS OF INTEREST: Information systems technology, including data processing, information storage and retrieval, business data communications, time-sharing, and simulation; operations research; systems analysis; systems design; inventory control; management science; management games; computer application to business, including management information systems, inventory control, trend analysis, payroll, and accounting; linear programming.

HOLDINGS: 1,000 technical documents relating to information systems technology and 1,500 pieces of equipment literature, all indexed by key word and retrievable through a computer sorted listing; 200 books. The Center also has direct access to the University of Georgia Science Library and General Library, which contain over 800,000 volumes, plus manuscripts and microfilm.

PUBLICATIONS: *Technical Information Reports* (TIR's), published by the staff; brochures, technical reprints.

INFORMATION SERVICES: Answers inquiries; provides consulting services; provides duplication of technical documents held at cost; provides instruction on computer application through short courses and seminars; makes referrals.

The Center has access to the University Computer Center containing $10 million in hardware, including time-shared capability, and to classrooms and conference rooms for adult education.

Computer Center

Information Science Group

2489 University of Georgia Computer Center
Graduate Studies Research Bldg.
Athens, Ga. 30601
Tel: (404) 542-3741

AREAS OF INTEREST: Chemistry; biology; biochemistry; nuclear science; chemical engineering; physics; agriculture; education.

HOLDINGS: Machine-readable records (including titles, abstracts, and index terms) for approximately 2.2 million documents.

PUBLICATIONS: Brochure.

INFORMATION SERVICES: Provides computer literature-search services for both current awareness and retrospective data base files. Search queries are formulated by information specialists trained in the respective disciplines based upon the users' stated information needs. Answers are provided in the form of bibliographic citations which include the secondary and primary references, the title of the article, report, etc., the authors' names, and the location of work. In addition to bibliographic search services, substructure searches of chemical structure files recorded in the Chemical Abstracts Services notation are also offered. Services are provided free to University of Georgia personnel and at cost to others.

Computer Software Management and Information Center (COSMIC)

2490 University of Georgia
Barrow Hall
Athens, Ga. 30601
Tel: (404) 542-3265

AREAS OF INTEREST: Computer programs and the corresponding documentation developed by and for National Aeronautics and Space Administration, Department of Defense, Atomic Energy Commission, other Government agencies, universities, and industry. The programs deal with problems in such fields as acoustics, aeronautics (subsonic and supersonic), aerospace engineering (launch vehicles, trajectories, orbits, reentry, rockets), biochemical analysis, calibration, chemistry, circuit analysis, contour mapping, cost analysis, data handling, electrical and electronic engineering, flow charting, fluid dynamics, geophysics, guidance, heat transfer, information retrieval, instrumentation, ion engines, management, mass transfer, mathematics (algebraic equations, differential equations, eigenvalues and eigenvectors, Fourier analysis, geometry, iteration, Laplace transform, least squares curve fit, matrices, nonlinear algebra, numerical analysis, polynomial manipulation, statistics), nuclear physics and engineering (radiation, reactors, shielding), optics, photographic interpretation, programming systems, structural analysis (beams, shells of revolution, thin shells, static and dynamic), telemetry, and thermodynamics.

HOLDINGS: A library of program decks with corresponding documentation.

PUBLICATIONS: *Computer Program Abstracts* (available on subscription or individual basis from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402).

INFORMATION SERVICES: Provides copies of computer program decks (on cards or tape as desired) along with attendant documentation for fee; supplies documentation alone for token fee; conducts in-house search for programs to fill particular needs; provides information on the use of the programs.

General Research

2491 University of Georgia
Athens, Ga. 30601
Tel: (404) 542-3512

AREAS OF INTEREST: Synthetic methods; NMR spectroscopy; stereochemistry; chemistry of natural products; terpenes; alkaloids; carbanions; free radicals; kinetics; statistical theory of electronic energies; thermochemical and transport properties of mixtures; heterogeneous equilibria; electrochemistry; electron spin resonance; photochemistry; radiation chemistry; electronic spectra; organometallic chemistry; transition metal complexes; boron hydrides; mass spectrometry; X-ray crystallography; geology; mineralogy; petrology; sedimentology; coastal processes; hydrography; salt marsh ecosystems; estuarine pollution; agriculture; estuarine microbiology; nutrient cycling; bioluminescence; behavioral physiology of invertebrates; coastal geomorphology; geochemistry; sedimentary structures; clay mineralogy; palynology; single crystal growth; high pressure transformations triaxial stress measurements; compressibilities; gas-solid interactions at high pressures; statistical estimation; non-parametric theory; bayes estimation; biostatistics; statistical genetics; systems analysis; operations research; information systems; sampling survey theory; multivariate analysis; classification techniques; numerical methods; reliability theory; statistical languages; statistical computer applications; drainage basin morphology; water balance studies; chemiluminescence; carbon-14 isotope geology; hydrology; ore deposits; mineral equilibria; rock deformation; paleoecology; vertebrate paleontology; economical-mineral collection; photoelectric photometry; negative ion studies; ion-atom scattering; electron scattering; thermal properties of liquid helium; thermal properties of solids; magnetic and optical properties of solids; polarized neutron reactions; charged particle and gamma ray spectroscopy; ultrasonic attenuation in solids; stability of binary star systems; vibrational and electronic structure of molecules; S-matrix theory; local quantum theory; theory of Yang-Mills field, unified field theory; three-body problems; nuclear reaction theory; dynamics of solids.

HOLDINGS: Samples of pleistocene, barrier island, and salt marsh continental shelf sediments; invertebrate collection; herbarium and systematics taxonomic vertebrate and invertebrate specimens; 120 periodicals and journals; reprints, photos, slides, maps, charts, newsletters, motion pictures on marine geology, fossils; 15,000 geologic volumes, including 170 journals and complete sets of all major journals; complete set of U.S. Geological Survey publications and maps; complete set of American Mineralogical Society maps and extensive geological map collection; 6,200 volumes in mathematical sciences, including subscriptions to 150 journals in the mathematical sciences.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services for fee; provides spectrographic and X-ray analyses; shows films and slides; identifies rocks and minerals; provides statistical consultations on the design and analysis of experiments and surveys; permits onsite reference.

Facilities include visible, ultraviolet, and infrared spectrometers (including Perkin Elmer 621, Beckman 11, and Cary 14 instruments); preparative and analytical vapor phase chromatographs; NMR spectrometers (Varian HA-100, Varian A-60, Perkin Elmer R-20); Varian V-4502-14 ESR spectrometer; radiochemical counting apparatus; RMU-6 mass spectrometer; Cary 60 ORD-CD spectrophotometer; cobalt-60 source; X-ray diffraction, X-ray fluorescence, optical spectrographic, petrographic, and atomic absorption equipment; electron microscope; geochemical prospecting laboratory; palynological laboratory; hydrothermal laboratory; high pressure equipment for triaxial stress techniques, compressibility, phase transformation, and gas-solid interaction studies; student laboratories for statistical computations; advanced laboratory which includes two IBM 2250 terminals connecting on line to IBM 360/65; a data preparation laboratory; instrumented experimental watershed; meteorological observatory; laser Raman; electron-probe microanalyzer; carbon-14 laboratory; 5MV Van de Graaff accelerator with on-line computer; low temperature laboratory; 24-inch Cassegranian telescope; atomic scattering laboratory.

Georgia Agricultural Experiment Station

2492 College of Agriculture
University of Georgia
Athens, Ga. 30601
Tel: (404) 542-2376

AREAS OF INTEREST: General agriculture; agricultural engineering; agronomy; horticulture; plant pathology; entomology; animal science; dairy and poultry science; food science; economics.

HOLDINGS: A library of 33,000 books.

PUBLICATIONS: *Georgia Agricultural Research* (quarterly); bulletins.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

Branch Stations: Coastal Plain Experiment Station, Tifton, Ga.; Georgia Experiment Station, Experiment, Ga.

Institute of Natural Resources

Division of Water Resources

2493 Institute of Natural Resources
University of Georgia
Athens, Ga. 30601
Tel: (404) 542-1555

AREAS OF INTEREST: Soil and water conservation; watershed management; water quality and pollution; socioeconomic aspects of water; ecological impact on water development; ground-water geology; water resources economics; water resources development.

INFORMATION SERVICES: Answers inquiries; provides consulting services to State agencies; conducts and coordinates related research.

School of Forest Resources

2494 University of Georgia
Athens, Ga. 30601
Tel: (404) 542-2686

AREAS OF INTEREST: Applied forestry through protection, management, and utilization of forest resources, including vegetation-soil-water relationships and watershed and pollution studies; ecosystem science, including basic forest hydrology.

PUBLICATIONS: Reports are published by the Georgia Forest Research Council and jointly with the Office of Water Resources Research and the Bureau of Sport Fisheries, U.S. Department of the Interior, and the Forest Service, U.S. Department of Agriculture. Articles concerned with forests, cover soil, water, and microclimate are also prepared for national and international journals. Single copies are distributed free on request.

INFORMATION SERVICES: Answers inquiries; provides brief consulting services; provides extensive consulting services free to State and local government offices (others may make arrangements with individual faculty members for extensive consulting services on fee basis).

The School maintains a small, gaged, forested watershed with a rainfall, soil-moisture, and ground-water network as an index to runoff from local Piedmont forest lands. Laboratories for forest hydrology and plant-soil-water research are contained in a modern three-building complex. A soil-water field laboratory is proposed for construction.

UNIVERSITY OF HARTFORD

School of Engineering

2495 University of Hartford
200 Bloomfield Ave.
West Hartford, Conn. 06117
Tel: (203) 523-4811

AREAS OF INTEREST: Electrical engineering; mechanical engineering; acoustical engineering; automatic controls; long and short wave radiation phenomena; stress analysis; computerized design; energy conversion; computer development and circuitry.

HOLDINGS: 5,000 books; 50 periodical titles; reports.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services; provides field service in noise abatement; provides computerized services for industries requiring optimization. Most services are provided at cost.

UNIVERSITY OF HAWAII

Center for Engineering Research

2496 2565 The Mall
University of Hawaii
Honolulu, Hawaii 96822
Tel: (808) 944-8301

AREAS OF INTEREST: Ocean engineering; radio science; microwaves; coastal and harbor studies; corrosion; abrasion; pollution; water resources; structural mechanics.

PUBLICATIONS: Research reports, bulletins.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and reference services; conducts studies.

Facilities include the James K. K. Look Laboratory of Oceanographic Engineering.

Cooperative Extension Service

2497 College of Tropical Agriculture
University of Hawaii
2525 Varney Circle, Gilmore Hall
Honolulu, Hawaii 96822
Tel: (808) 944-8346 or 944-8538

AREAS OF INTEREST: Agricultural engineering; agricultural economics; agricultural biochemistry; agronomy; soil science; animal (beef, dairy, poultry) science; entomology; food science and technology; home economics; horticulture; nutrition; parasitology; plant pathology; plant physiology.

HOLDINGS: Educational films and filmstrips, reports, data.

PUBLICATIONS: Bulletins, circulars, leaflets, proceedings, data handbook.

INFORMATION SERVICES: Answers inquiries; provides consulting services; lends materials.

Hawaii Agricultural Experiment Station

2498 University of Hawaii
2525 Varney Circle
Honolulu, Hawaii 96822
Tel: (808) 944-8231

AREAS OF INTEREST: General agriculture; tropical agriculture; agricultural biochemistry, economics, and engineering; agronomy; soil science; animal science; entomology; food science and technology; horticulture; nutrition; plant pathology; plant physiology; fashion design, textiles, and merchandizing; human development; home economics.

HOLDINGS: Small reference collection.

PUBLICATIONS: *Hawaii Farm Science* (quarterly); circulars, bulletins.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

Hawaii Institute of Geophysics

2499 University of Hawaii
2525 Correa Rd.
Honolulu, Hawaii 96822
Tel: (808) 944-8760

AREAS OF INTEREST: Geophysics, including geology, solid-earth geophysics, geochemistry, oceanography, meteorology, tsunami, aeronomy, ionospheric physics, and geodesy, particularly of the Hawaiian Islands and Pacific Ocean.

HOLDINGS: Books, journals, reports, data.

PUBLICATIONS: Reports, proceedings, state-of-the-art reviews.

INFORMATION SERVICES: Provides consulting and reference services; offers advanced training in earth sciences.

Facilities include a cloud physics observatory at Hilo, Hawaii; seismographic observatory in upper Manoa Valley; and a research vessel at Honolulu Harbor.

University Library

2500 University of Hawaii
Honolulu, Hawaii 96822
Tel: (808) 944-7205 (Library Administration)
(808) 944-8263 (Science-Technology Reference)

The University Library consists of the Gregg M. Sinclair Library, serving undergraduates, and the Thomas Hale Hamilton Library, primarily designed as a graduate research library. The collections are divided between the two buildings but are centrally administered.

AREAS OF INTEREST: Usual university library subjects, including science and technology, with special strengths in Hawaiian, Pacific Ocean, marine biology, tropical agriculture, tsumani research, and Asian materials.

HOLDINGS: 722,290 bound volumes; 12,495 serials currently received; collection of AEC, NASA, and RAND reports; U.S. Government, United Nations and allied agencies, State, and foreign government documents on agriculture; maps, microform collection.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; compiles short bibliographies in areas of strength.

Water Resources Research Center

2501 University of Hawaii
2525 Correa Rd.
Honolulu, Hawaii 96822
Tel: (808) 944-8847

AREAS OF INTEREST: Water resources of the Hawaiian Islands, including hydrologic, engineering, and social aspects; water resources of the Pacific islands; tropical hydrometeorology, precipitation, and storms; hydrogeology; basalt and coral aquifers; insular ground water; saline intrusion; wells; water use; saline tolerance; tropical evapotranspiration; soil-water relationships in tropical soils; irrigation; water conservation; water quality; water pollution; waste water and sewage treatment; pesticides in water; tropical-alpine limnology; floods; water law; water rights; water economics.

HOLDINGS: A technical reference library is shared with the Institute of Geophysics. There is also a file of manuscripts on Hawaiian water resources.

PUBLICATIONS: Technical reports and journal contributions.

INFORMATION SERVICES: Answers inquiries; provides consulting and bibliographic services; makes referrals; permits onsite reference.

The Center's facilities include two deep monitor wells, a water chemistry laboratory, a radioisotope laboratory, and a hydraulic laboratory used in cooperation with the Engineering Research Institute.

UNIVERSITY OF IDAHO

Engineering Experiment Station

2502 University of Idaho
Moscow, Idaho 83843
Tel: (208) 882-3511

AREAS OF INTEREST: Engineering research in highway maintenance, canal seepage, bituminous materials, efficiency of water conduits, snow-moisture measurements, air pollution, infrared, infrasonics, soil moisture, integrated circuits and control systems, flash X-ray technology, heat and mass transfer, high vacuum studies, electrochemical hydrodynamics, and nuclear radiation technology.

PUBLICATIONS: Reports, bulletins, reprints.

INFORMATION SERVICES: Answers inquiries; lends some materials.

Idaho Agricultural Experiment Station

2503 University of Idaho
Moscow, Idaho, 83843
Tel: (208) 882-3511 Ext. 6483, 6151, or 6152

AREAS OF INTEREST: General agriculture; agriculture relating to Idaho; biochemistry of soils; agricultural economics; engineering; animal science; bacteriology; dairy science; home economics; entomology; plant science; poultry science; veterinary science.

PUBLICATIONS: Experiment station bulletin, research bulletin, current information series, progress reports, journal articles, Idaho agricultural science and miscellaneous research series.

INFORMATION SERVICES: Through the Information Department of the Experiment Station, prepares radio and television scripts for Stations throughout the State; makes available bulletins and publications.

Facilities include laboratories and a computer center housing IBM 360/40, 360/20, and 1620 computers.

Idaho Bureau of Mines and Geology

2504 Mines Bldg.
University of Idaho
Moscow, Idaho, 83843
Tel: (208) 882-3732

AREAS OF INTEREST: Geology; production statistics; history; economics; mining and milling of Idaho mineral deposits; ground water in Idaho.

HOLDINGS: Journals, reports, data.

PUBLICATIONS: Monographs, bibliographies (both irregular). A price list is available.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

Library

2505 University of Idaho
Moscow, Idaho 83843
Tel: (208) 882-0110

AREAS OF INTEREST: General subject coverage, including science and technology; mining; metallurgy; forestry; engineering; entomology; agriculture.

HOLDINGS: The Library's holdings in science and technology include about 75,000 books, 2,500 periodical titles, 51,000 bound periodicals, 10,000 U.S. Bureau of Mines publications, and 45,000 maps. The Library is a depository for both U.S. Government and Idaho State Government documents.

INFORMATION SERVICES: Provides reference services (priority is given to faculty and students); provides photocopying services; makes interlibrary loans.

Water Resources Research Institute

2506 University of Idaho
Moscow, Idaho 83843
Tel: (208) 882-3511 Ext. 6429 or 6420

AREAS OF INTEREST: Water problems and water resources of Idaho; water pollution; watershed management; ground water; hydraulic engineering; aquatic biology; hydrology; water economics; water law; irrigation and drainage; piscicides.

HOLDINGS: 2,970 reports; 204 bibliographies; 80 reviews; 43 books; 125 maps and charts; abstracts, indexes, data.

PUBLICATIONS: Annual report.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; performs research on more complex problems having academic interest, as negotiated; permits onsite use of collection.

UNIVERSITY OF ILLINOIS

Agriculture Library

2507 University of Illinois
225 Mumford Hall
Urbana, Ill. 61801
Tel: (217) 333-2416

AREAS OF INTEREST: General agriculture; animal science; soil science; field crops; agricultural economics; international agriculture, with special emphasis on India and Africa; environmental problems relating to agriculture.

HOLDINGS: 58,000 books and bound periodicals; 10,000 pamphlets.

INFORMATION SERVICES: Provides reference services to non-University personnel by special permission; makes interlibrary loans.

Atmospheric Science Laboratory

2508 Department of General Engineering
401 Transportation Bldg.
University of Illinois
Urbana, Ill. 61801
Tel: (217) 333-3160

AREAS OF INTEREST: Radon-222 in the lower atmosphere; use of radon-222 as a tracer material in vertical diffusion studies; radon-222 emanation from soils and release from plants.

HOLDINGS: Reports, preprints, reprints, data.

PUBLICATIONS: Reports on radon-222 in the atmosphere.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite use of collection.

Chemistry Library

2509 University of Illinois
Urbana, Ill. 61801
Tel: (217) 333-3737

AREAS OF INTEREST: Chemistry, biochemistry, and chemical engineering.

HOLDINGS: 38,638 volumes, primarily bound periodicals; 200 reels of microfilm.

INFORMATION SERVICES: Provides ready-reference services to non-University personnel. The Library does not provide bibliographies or literature searches.

City Planning and Landscape Architecture Library

2510 University of Illinois
203 Mumford Hall
Urbana, Ill. 61801
Tel: (217) 333-0424

AREAS OF INTEREST: City, metropolitan area, and regional planning; landscape architecture.

HOLDINGS: 10,000 pamphlets; 718 serial titles; 14,000 slides; 17,000 reports; books.

PUBLICATIONS: Accessions list (monthly).

INFORMATION SERVICES: Provides limited reference and duplication services; makes interlibrary loans; permits onsite reference by request.

Department of Theoretical and Applied Mechanics

2511 College of Engineering
University of Illinois
212 Talbot Laboratory
Urbana, Ill. 61801
Tel: (217) 333-2321

AREAS OF INTEREST: Behavior of materials, metallic and nonmetallic; fatigue; fracture mechanics; glass laminates; reinforced concrete; mechanics of solids; theories of elasticity and plasticity; experimental stress analysis; photoelasticity (static and dynamic), including use of lasers; fluid mechanics (incompressible flow); turbulence; boundary layer analyses; biological studies of cerebral flow distribution; dynamics and vibrations, including dynamics of rocket launchers; applied mathematics; noise suppression; biomechanics; failure analysis of mechanical components.

PUBLICATIONS: Reports (about one a month.)

INFORMATION SERVICES: Answers inquiries; provides technical assistance and research services to industry.

The Department (along with other University departments) sponsors the Production Engineering Educational and Research Center and the Midwest Electronics Research Center in the College of Engineering.

Engineering Library

2512 221 Engineering Hall
University of Illinois
Urbana, Ill. 61801
Tel: (217) 333-3576

AREAS OF INTEREST: Aeronautical and astronautical engineering; agricultural, ceramic, civil, electrical, mechanical, metallurgical, and nuclear engineering; theoretical and applied mechanics.

HOLDINGS: 115,000 books; 2,470 serials.

INFORMATION SERVICES: Provides duplication services; makes direct and interlibrary loans; permits onsite reference.

Geology Library

2513 223 Natural History Bldg.
University of Illinois
Urbana, Ill. 61801
Tel: (217) 333-1266

AREAS OF INTEREST: Geology; geochemistry; geomorphology; geophysics; geochronology; geotectonics; mineralogy; oceanography; petrology; petrography; sedimentation; speleology; stratigraphy and geologic history; structural geology; volcanology; economic geology; engineering geology; geohydrology; experimental geology; earth science teaching; paleobotany; invertebrate, vertebrate, and human paleontology.

HOLDINGS: 60,000 volumes; 2,200 serials, including Government reports; geological maps with worldwide coverage; 208 films; 6 vertical file drawers of reprints, translations, and pamphlets; extensive collection of old and rare books on geology (available for onsite use). Most foreign languages are represented, with emphasis on Russian, German, French, Spanish, and Italian sources.

PUBLICATIONS: Monthly acquisition list.

INFORMATION SERVICES: Provides library services to University students and staff members, and to others by special permission; makes interlibrary loans; provides duplication services for fee.

Illinois Agricultural Experiment Station

2514 University of Illinois
Urbana, Ill. 61801
Tel: (217) 333-0240

AREAS OF INTEREST: General agriculture; agricultural economics; agronomy; rural sociology; agricultural engineering; crops; soils; beef and dairy cattle;

swine; sheep; agricultural communications; agricultural entomology; forestry; home economics; vegetable crops; floriculture; ornamental horticulture; plant and animal diseases.

PUBLICATIONS: *Illinois Research* (quarterly); technical bulletins, circulars, standards and specifications.

INFORMATION SERVICES: Provides reference and consulting services; provides soil analysis for fee.

Map and Geography Library

2515 University of Illinois
Urbana, Ill. 61801
Tel: (217) 333-0827

AREAS OF INTEREST: Geography; cartography; maps.

HOLDINGS: 250,000 maps; 85,000 aerial photos, all of Illinois; 14,000 books; 3,600 bound periodicals; 2 vertical file drawers of pamphlets; atlases, gazetteers.

INFORMATION SERVICES: Provides reference services to non-University personnel by special permission; lends materials to county residents; makes interlibrary loans.

Materials Research Laboratory

2516 University of Illinois
Urbana, Ill. 61801
Tel: (217) 333-1370

AREAS OF INTEREST: Solid state physics; solid state chemistry; metallurgy; ceramics.

HOLDINGS: The Laboratory uses the collections of the University library.

PUBLICATIONS: Annual report.

INFORMATION SERVICES: Answers inquiries.

Mathematics Library

2517 University of Illinois
Urbana, Ill. 61801
Tel: (217) 333-0258

AREAS OF INTEREST: Pure and applied mathematics; mathematical logic; statistics and probability; computer theory and computations; history and teaching of mathematics.

HOLDINGS: 15,000 books; 15,000 bound periodicals.

INFORMATION SERVICES: Provides reference services to non-University personnel by application or permit; makes interlibrary loans.

Office of Engineering Publications

2518 College of Engineering
University of Illinois
112 Engineering Hall
Urbana, Ill. 61801
Tel: (217) 333-1510

AREAS OF INTEREST: Engineering research; aeronautical engineering; astronautical engineering; agricultural engineering; ceramic engineering; chemical engineering; civil engineering; coordinated science; electrical engineering; general engineering; mechanical engineering; mining engineering; metallurgy; industrial engineering; physics; nuclear engineering; theoretical and applied mechanics; bioengineering.

HOLDINGS: Bulletins, reprints, circulars, proceedings.

PUBLICATIONS: *The Summary of Engineering Research* (annual), outlining the research projects in the College; *The Catalog of Publications*, listing the bulletins, reprints, and circulars dealing with a variety of subjects in engineering; Engineering Experiment Station Bulletin series, containing reports of research projects in the College; Sanitary Engineering Conference Proceedings; *Engineering Outlook* (monthly newsletter).

INFORMATION SERVICES: *The Catalog of Publications* is disseminated free; *The Summary of Engineering Research* is disseminated for a handling fee. Publications described in the *Catalog* are available for a small charge. A Documents Center provides information on unpublished technical reports, referring requesters to appropriate departments or individuals in the College or to one of the Federal clearinghouses. In some cases, the Documents Center can provide reproduction services for out-of-print reports.

Facilities include a microfiche reader in the Documents Center.

Physics Library

2519 University of Illinois
Urbana, Ill. 61801
Tel: (217) 333-2101

AREAS OF INTEREST: Physics, including cryogenics, crystalline state, field theory, high-energy physics, magnetic resonance, nuclear physics, particle accelerators, physics of metals, quantum mechanics, radiation damage, semiconductors, solid state physics, kinetic theory, theoretical physics, plasma physics, and surface physics.

HOLDINGS: 10,000 books; 4,000 bound periodicals; a depository collection of U.S. Atomic Energy Commission reports; films.

INFORMATION SERVICES: Provides reference services to non-University personnel by special permission; provides photoduplication copies of journal articles; makes interlibrary loans.

Small Homes Council--Building Research Council

2520 One Saint Mary's Rd.
Champaign, Ill. 61820
Tel: (217) 333-1801

AREAS OF INTEREST: Construction methods and materials, design, and space utilization for single-family and low-rise multifamily housing; special problems in general building.

HOLDINGS: Books, journals, data.

PUBLICATIONS: Nontechnical informative leaflets on various phases of home planning and construction; instruction sheets (intended primarily for builders and contractors); research reports.

INFORMATION SERVICES: Answers specific inquiries, by letter or in person, relating to planning and construction and not covered by Council publications (this service is limited by the availability of staff time); provides photoduplication services, as required to answer specific inquiries, for fee. Individual staff members provide consulting services on private basis.

UICSM Mathematics Project

2521 University of Illinois
1210 West Springfield
Urbana, Ill. 61801
Tel: (217) 333-0150

AREAS OF INTEREST: School mathematics and science.

HOLDINGS: 13,000 books; journals.

PUBLICATIONS: Report/monograph series, news journal, proceedings, textbooks, films.

INFORMATION SERVICES: Answers inquiries.

Water Resources Center

2522 2535 Hydrosystems Laboratory
University of Illinois
Urbana, Ill. 61801
Tel: (217) 333-0536

AREAS OF INTEREST: Hydrology; water resources planning; water quality; ecology of water resources development; pollution control.

PUBLICATIONS: Research reports, annual report, special reports.

INFORMATION SERVICES: Answers inquiries as time and staff permit; makes referrals for agencies and firms in locating consultants.

UNIVERSITY OF IOWA

Institute of Hydraulic Research

2523 University of Iowa
Iowa City, Iowa 52240
Tel: (319) 353-4692

AREAS OF INTEREST: Hydraulics; fluid mechanics; hydrology; ice processes; turbulent diffusion and dispersion; geophysics; bioengineering; sediment transport.

HOLDINGS: Reprints; collection of rare books and classics in hydraulics.

PUBLICATIONS: Research bulletins, technical report series, reprints of papers published by staff are available on request.

INFORMATION SERVICES: Answers inquiries; provides consulting services; produces educational films; makes available technical reports and research bulletins.

Facilities include open-channel flumes; wind tunnels; wave basins; scour flumes; IBM 1800 data acquisition and control; ship model towing tank; low-temperature flow facility for study of ice processes; dispersion flume; and machine and electronics shops.

Observatory

2524 University of Iowa
Iowa City, Iowa 52240
Tel: (319) 353-3527

AREAS OF INTEREST: Optical radio and solar X-ray astronomy; astrophysics.

HOLDINGS: Reports, reviews, graphs, tables, posters and other display materials, maps, charts, preprints, reprints, publication lists, clippings.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; holds open house of the Observatory once a month.

Facilities include 60 ft. and 28 ft. radio telescopes plus several small receivers, 24-inch and 5-inch refractors, and other astronomical instruments.

University Computer Center

2525 University of Iowa
Iowa City, Iowa 52240
Tel: (319) 353-3170

AREAS OF INTEREST: All computer applications.

HOLDINGS: 1,000 copies of computer manuals; 200 computer program descriptions; magnetic tapes, punched cards, project records, technical reports, books, periodicals, newsletters, reprints, large data sets.

PUBLICATIONS: *User's Guide*; project records, technical reports, reprints, newsletters.

INFORMATION SERVICES: Provides consulting services; permits onsite use of literature collection.

UNIVERSITY OF KANSAS

Center for Research, Inc.

Engineering Science Division

2526 Center for Research, Inc.
University of Kansas
Lawrence, Kans. 66044
Tel: (913) 864-3441

AREAS OF INTEREST: Engineering, including chemical, civil, petroleum, mechanical, nuclear, aerospace, materials, electrical, and environmental health; mechanics; metallurgy; digital computer technology; particular research interest in remote sensing of environment; radar (especially polypolarized and scatterometry), information sciences, transport phenomena, heat transfer, thermodynamics, phase behavior, hydraulics, and stress analysis.

HOLDINGS: Library of DDC, IAA, STAR, and NASA report series and of internally-originated reports and reprints. The Division also has access to the University of Kansas Library of over a million volumes.

PUBLICATIONS: *Engineering Research* (annual); *Studies in Engineering Mechanics*; annual report; CRES Reports (irregular).

INFORMATION SERVICES: Answers inquiries; provides consulting and literature-searching services; sponsors seminars and informal conferences.

Facilities include an Electronics Research Laboratory, Remote Sensing Laboratory, Low Temperature Laboratory, Nuclear Engineering Laboratory, Environmental Health Laboratory, and Flight Research Laboratory.

Computation Center

2527 University of Kansas
110 Summerfield Hall
Lawrence, Kans. 66044
Tel: (913) 864-3776

AREAS OF INTEREST: Numerical analysis; computation; computer programming; applications of computing.

HOLDINGS: 80 books; 100 technical reports; 55 reviews; 200,000 punched cards; 500 reels of magnetic tape; periodicals, abstracts, indexes, publication lists, pamphlets, data.

PUBLICATIONS: Newsletter.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides bibliographic and consulting services; permits onsite use of collection. Program library materials are available in punched card form for postage costs or on magnetic tape if tape is supplied.

University Libraries

2528 University of Kansas
Lawrence, Kans. 66044
Tel: (913) 864-3601 (Director's Office)

For specialized subject inquiries, call one of the following:
Tel: (913) 864-3465 (Science Library)
(913) 864-3745 (Earth Sciences Library)
(913) 864-3866 (Engineering Library)
(913) 864-3440 (Mathematics Library)

AREAS OF INTEREST: Pharmacy; biology; botany; chemistry; comparative biochemistry and physiology; entomology; geography and meteorology; geology; mathematics; microbiology; physics and astronomy; radiation biophysics; zoology; engineering, including aerospace, architectural, chemical, civil, electrical, mechanical, and petroleum.

HOLDINGS: 250,000 books; periodicals.

INFORMATION SERVICES: Provides reference and duplication services; makes interlibrary loans.

Water Resources Institute

2529 University of Kansas
Lawrence, Kans. 66045
Tel: (913) 864-3254

AREAS OF INTEREST: Administration and coordination of research and educational programs in water resources at the University of Kansas.

HOLDINGS: 500 books; 50 periodical titles; 1,000 reports; complete set of U.S. Geological Survey *Water-Supply Papers*; U.S. Department of Commerce Climatological Records; maps, hydrological data.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services at cost to all users based on time expenditure.

UNIVERSITY OF KENTUCKY

Chemistry-Physics Library

2530 University of Kentucky
Lexington, Ky. 40506
Tel: (606) 258-9000 Ext. 2477

AREAS OF INTEREST: Chemistry, including general, organic, inorganic, analytical, physical, quantum, radiochemistry, electrochemistry, polarography, chemical and statistical thermodynamics, and instrumental analysis; physics and astronomy, including atomic and nuclear physics, solid state physics, theoretical physics, infrared physics, mathematical physics, chemical physics, optics, electronics and magnetism, quantum mechanics, astrophysics, and astronomy and celestial mechanics.

HOLDINGS: 27,075 books; 453 periodical titles; 415 theses; complete collection of AEC and NASA microforms; complete set of Sadtler Standard Spectra Catalogs, consisting of infrared (prism and grating), ultraviolet, and nuclear magnetic resonance.

INFORMATION SERVICES: Answers inquiries; provides reference services; provides duplication services for fee; makes interlibrary loans; makes direct loans to University personnel and holders of special borrowers' cards; permits onsite reference.

College of Agriculture

Department of Public Information

2531 College of Agriculture
University of Kentucky
Agricultural Experiment Station Bldg., Room 112
Lexington, Ky. 40506
Tel: (606) 258-9000 Ext. 2642

AREAS OF INTEREST: Agricultural economics; agricultural engineering; agronomy; animal sciences; entomology; forestry; home economics; horticulture; plant pathology; resource development; sociology; veterinary science; youth development (4-H).

PUBLICATIONS: *Green Pasture Newsletter*, *Dairy Newsletter*, and *Beef Cattle Facts* (all monthly); books, news releases, radio and television releases and tapes, visual presentations.

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes referrals; disseminates publications.

Department of Agricultural Engineering

2532 University of Kentucky
Lexington, Ky. 40506
Tel: (606) 252-2200 Ext. 2643

AREAS OF INTEREST: Application of physical science to agricultural production and processing operations; agricultural machinery; agricultural structures; applications of energy in agricultural production and processing, such as wood processing and food and feed handling, processing, and storage; environmental requirements and designs for environmental systems for plants and animals.

HOLDINGS: 250 books and monographs; complete set of *Agricultural Engineering* journals; research reports prepared by the Department; 1,100 slides; 350 photos; tapes containing Kentucky weather data for 25 years; 20,000 punched cards containing research and weather data; newsletters, farm building models, data.

PUBLICATIONS: Newsletter, research reports.

INFORMATION SERVICES: Answers inquiries; provides all types of educational information on the application of engineering to agriculture, including building plans and printed technical literature.

Development Services Information Analysis Center

2533 409 Commerce Bldg.
University of Kentucky
Lexington, Ky. 40506
Tel: (606) 258-9000 Ext. 2953

AREAS OF INTEREST: Technical data applicable to the manufacturing and industrial communities of Kentucky.

HOLDINGS: Technical data collected from Government agencies and educational institutions; books, periodicals, reports.

PUBLICATIONS: *Technical Serials in Kentucky* (listing of over 8,000 titles of scientific and technical journals in the State of Kentucky); directories.

INFORMATION SERVICES: The Center provides technical information to Kentucky firms with specific technical problems. This service is free and any company with a specific problem is eligible. The Center works in conjunction with the Greater Louisville Technical Referral Center located at the University of Louisville.

Engineering Library

2534 University of Kentucky
Lexington, Ky. 40506
Tel: (606) 258-9000 Ext. 2911

AREAS OF INTEREST: Aerospace technology; air conditioning, heating, and ventilation; air pollution; alloys; biotechnology; ceramic engineering; chemical process design and control; corrosion; crystallography and X-ray metallography; electrical and electronic circuits; engineering graphics; heat and mass transfer; melting, fabrication, and testing of metals; microwave engineering; nuclear engineering; nuclear reactor design and analysis; petroleum refinery engineering; polymers; propulsion systems; radiation damage and shielding; sanitary engineering; soil mechanics; solid state electronics; structural engineering; traffic flow; thermodynamics; transportation facilities design and construction; water quality engineering; water resources managment; stress and strain analysis of materials.

HOLDINGS: 23,219 books; 504 periodical titles. The Engineering Library's collection of Government reports is maintained in the Government Documents Department of the Margaret I. King Library.

INFORMATION SERVICES: Answers inquiries; provides reference and literature-searching services; provides duplication services for fee; makes interlibrary loans; makes direct loans to University faculty, staff, students, and alumni; permits onsite reference.

Geology Library

2535 University of Kentucky
104 Miller Hall
Lexington, Ky. 40506
Tel: (606) 258-9000 Ext. 2138

AREAS OF INTEREST: General geology; economic geology; mineral deposits; petroleum; engineering geology; geochemistry; geochronology; geodesy; geohydrology; geomorphology; geophysics; geotechnics; glaciology; historical geology; mineralogy; oceanology; vertebrate and invertebrate paleontology; paleobotany; petrography; petrology; sedimentation; seismology; speleology; stratigraphy; structural geology; volcanology.

HOLDINGS: 21,459 bound volumes; 1,532 periodical titles, including foreign and national survey publications and State publications; 50,966 maps, predominately geological, with the 1,800 maps of Kentucky emphasized, including the early Kentucky county geological maps, many of which are out of print and rare; 200 reels of microfilm. The Library is a depository for all U.S. Geological Survey publications. Both domestic and foreign titles are acquired in all major languages, including English, Russian, Italian, Spanish, French, German, and Japanese.

INFORMATION SERVICES: Answers inquiries; provides reference services; permits onsite use of collection. Photocopies are made for interlibrary loans through the University of Kentucky Library Reference Department.

Kentucky Agricultural Experiment Station

2536 University of Kentucky
Lexington, Ky. 40506
Tel: (606) 258-9000

AREAS OF INTEREST: Soils and crops; horticulture; plant pathology; veterinary medicine; feeds; fertilizers; pesticides; dairy science; poultry science; animal husbandry; agricultural economics; agricultural engineering; tobacco and health; economic entomology; human and animal nutrition; forestry; rural sociology; genetics.

PUBLICATIONS: Bulletin; regulatory bulletin; progress report; results of experiments (in annual report); serials issued by the departments and the extension service.

INFORMATION SERVICES: Answers technical inquiries; provides analytical services to Kentucky residents in the analysis of soils, feeds, plants, milk products, animal and plant diseases, and insects; provides consulting services concerning agricultural problems within the State.

Facilities include research laboratories and field stations.

Kentucky Geological Survey

2537 307 Mineral Industries Bldg.
University of Kentucky
Lexington, Ky. 40506
Tel: (606) 258-9000 Ext. 2283 or 2284

AREAS OF INTEREST: Geology and mineral resources of Kentucky; topographic mapping; water resources investigations.

HOLDINGS: 100,000 drillers' logs and 11,069 well samples derived principally from shallow oilfield operations; 60,000 feet of cores; observation well records and stream gaging records (maintained at the District Office, U.S. Geological Survey, Louisville, Ky.); technical reports, maps.

PUBLICATIONS: Reports, catalogs, geological and mineral resource maps, maps showing status of projects.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides bibliographic and duplication services. The logs, maps, and reports are available for reference; the well cuttings may be studied at the Survey well sample library.

Office of Research and Engineering Services

2538 University of Kentucky
Anderson Hall
Lexington, Ky. 40506
Tel: (606) 258-9000 Ext. 2911

AREAS OF INTEREST: Electronics; structures; highways; heat transfer; environmental sciences; metallurgy; engineering mechanics; water and air pollution; mining; metallography; physical chemistry.

HOLDINGS: The Office has access to the holdings of the College of Engineering library, the University library, and other departmental and college collections.

PUBLICATIONS: Bulletin series (quarterly); *College Research and Publications* (annual report); college brochures and catalogs, conference proceedings, research reports.

INFORMATION SERVICES: Answers inquiries; provides consulting and duplication services; designs systems for specific needs. Services are provided at cost to all users.

The University of Kentucky Research Foundation

2539 University of Kentucky
Lexington, Ky. 40506
Tel: (606) 258-9000

AREAS OF INTEREST: Agricultural engineering; agronomy; architecture; chemical engineering; chemistry; civil engineering; engineering mechanics; electrical engineering; geology; radiology; mathematics; metallurgical engineering; mining engineering; physics; aeronautical engineering; bioengineering.

HOLDINGS: Over 1 million library items and extensive departmental holdings.

PUBLICATIONS: Technical reports, annual report.

INFORMATION SERVICES: Provides consulting services free or for fee, as negotiated; makes referrals.

Water Resources Institute

2540 University of Kentucky
Lexington, Ky. 40506
Tel: (606) 252-2200 Ext. 2470

AREAS OF INTEREST: Water resource development, planning, and economics; nonstructural aspects of flood control, such as zoning; impact of flood-control structures on the local economy; chemistry of strip-mining water and ecology of acid mine waters; ground water in limestone regions; persistence of pesticides in surface waters; evapotranspiration; effect of soil moisture on plants.

HOLDINGS: A small, specialized library.

PUBLICATIONS: Research results are published in professional journals and in research reports issued by the Institute.

INFORMATION SERVICES: Answers inquiries; makes referrals; assists in locating water resources information originating within the State.

Wenner-Gren Aeronautical Research Laboratory

2541 University of Kentucky
Lexington, Ky. 40506
Tel: (606) 258-9000 Ext. 2204

AREAS OF INTEREST: Bioengineering, including bioastronautics, biomechanics, and behavioral biology.

HOLDINGS: Data.

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services free or for fee, as negotiated.

UNIVERSITY OF LOUISVILLE

Water Resources Laboratory

2542 University of Louisville
Belknap Campus
Louisville, Ky. 40208
Tel: (502) 895-9983

AREAS OF INTEREST: Limnology; aquatic surveys of lakes and streams; the roles of various organisms in the overall functioning of the aquatic ecosystem; the transfer of energies from various sources through the aquatic ecosystem; the physical and chemical characteristics of water, both lotic and lentic; bottom fauna; any other organisms that contribute to the welfare of the aquatic environment.

INFORMATION SERVICES: Answers inquiries. The Laboratory's staff provides consulting services on an individual basis.

UNIVERSITY OF MAINE

College of Life Sciences and Agriculture

2543 University of Maine
Orono, Maine 04473
Tel: (207) 866-7161

AREAS OF INTEREST: Agricultural and resource economics; agricultural engineering; agricultural mechanization; animal and veterinary sciences; bacteriology; biochemistry; biology; botany; entomology; food science; forestry; forest management; forest products; wildlife management; home economics; natural resource management; plant and soil sciences; food service management; merchandising.

PUBLICATIONS: *Research in the Life Sciences* (quarterly); occasional bulletins; journal articles by faculty members.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services for fee.

College of Technology

2544 University of Maine
Orono, Maine 04473
Tel: (207) 866-7011

AREAS OF INTEREST: Dynamic loading of reinforced and prestressed concrete members; punching shear in reinforced slabs; frost action in soils; compression of deep marine deposits; design of structures on compacted fills; peat as an aggregate for concrete; electrical analog for the solution of seepage problems; virus problems in water resources; problems of tannery, potato, and pulp mill wastes; hydrology of small impervious areas; contact stress fatigue; torsional shearing stress fatigue; spread of free-burning fires; turbulent boundary layer theory; laminar convection; drop condensation; tidal dynamics and instrumentation; circuit synthesis; biomedical electronic instrumentation; instrumentation for water pollution study; chemical physics (growth and protection of liquid crystals); gas discharge (parameters of low energy plasmas); low temperature physics (properties of solids at low temperature); meteorology (physical characteristics of precipitation); optics (wave propagation in inhomogeneous media); resonance (nuclear magnetic, spin); solid state (dielective studies, optical properties of solids, X-ray crystallography, amorphous semiconductors); theory (scattering, position annihilation); engineering research on design of process or process control systems for manufacture of paper products, including pollution abatement and water resources management; oil spillage; problems of petroleum engineering.

HOLDINGS: 30,000 volumes related to physical sciences and engineering; 300 periodicals; library of literature in pulp and paper science and technology.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Conducts research and provides consulting services for fee to State and municipal departments and private industry.

Facilities include a pilot plant for manufacturing processes for pulp and paper; testing laboratories; analog-digital hybrid computer system (IBM 1800-EAI Pace 231R) for simulation of process control studies; and research laboratories for chemical and chemical engineering research relevant to process and product design.

Maine Agricultural Experiment Station

2545 University of Maine
Orono, Maine 04473
Tel: (207) 866-7344

AREAS OF INTEREST: General agriculture; forestry; home economics; agricultural economics; agricultural engineering; animal pathology; animal science; bacteriology; biochemistry; botany; plant pathology; entomology; food science; plants and soils; poultry science; resource development.

PUBLICATIONS: *Research in the Life Sciences* (quarterly); reports.

INFORMATION SERVICES: Answers inquiries.

School of Forest Resources

2546 University of Maine
Forest Resources Bldg.
Orono, Maine 04473
Tel: (207) 866-7312

AREAS OF INTEREST: Forest land management; wood technology; wildlife management; forest recreation; forest genetics.

PUBLICATIONS: *Forestry Facts* (bimonthly); bulletins.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

Water Resources Center

2547 53 Illinois Ave.
University of Maine
South Campus
Bangor, Maine 04401
Tel: (207) 947-8852

AREAS OF INTEREST: Many aspects of water resources, especially water resources planning, protection and enhancement of the water environments, cultural eutrophication, water quality monitoring, river modeling (conceptual, mathematical), and institutional and legal factors affecting goal attainment.

PUBLICATIONS: A bibliography of studies and research related to the water resources of Maine; a catalog of current water resources research projects in Maine; an analysis of water resources interests in Maine; proceedings and an analysis of a workshop on the planning-research interface related to water resources; newsletter.

INFORMATION SERVICES: Answers inquiries; provides consulting services; prepares and distributes water resources data for public information; abstracts current research reports; serves as a referral center.

UNIVERSITY OF MARYLAND

Fire Service Extension

2548 University of Maryland
P.O. Box 85
College Park, Md. 20742
Tel: (301) 927-4562

AREAS OF INTEREST: Fire protection, prevention, and suppression.

HOLDINGS: About 500 technical reports, 400 reviews, 3,500 data work sheets and correspondence, 600 standards and specifications, 350 firefighting appliances and equipment, 4,000 slides, 200 maps and charts, and 5,000 pamphlets; books, newsletters.

PUBLICATIONS: *Fire Service Bulletin* (monthly).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite use of collection.

Institute for Fluid Dynamics and Applied Mathematics

2549 University of Maryland
College Park, Md. 20742
Tel: (301) 454-2636, 454-2637, 454-2638, or 454-2639

AREAS OF INTEREST: Applied mathematics, including partial differential equations, eigenvalue problems, boundary and initial value problems, numerical analysis, classical analysis, continuum mechanics, and ordinary differential equations, with emphasis on stability and control theory; fluid dynamics, including high speed flow, plasma physics (both experimental and theoretical), magnetohydrodynamics, turbulence, and planetary fluid dynamics; statistical mechanics.

PUBLICATIONS: Reports (about 35 a year).

INFORMATION SERVICES: Answers brief inquiries free when time and inclinations of individual staff members permit.

Institute for Molecular Physics

2550 University of Maryland
College Park, Md. 20742
Tel: (301) 454-3437

AREAS OF INTEREST: Chemical physics; molecular interactions; transport properties and thermodynamic properties of gases; spectroscopy from the vacuum ultraviolet to the far infrared; atmospheric physics; critical point phenomena; molecular dynamics.

PUBLICATIONS: Booklet.

INFORMATION SERVICES: Answers brief inquiries; provides consulting services.

Maryland Agricultural Experiment Station

2551 University of Maryland
College Park, Md. 20742
Tel: (301) 454-3707

AREAS OF INTEREST: Agriculture and related sciences.

PUBLICATIONS: Popular-type general report (annual); technical reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

State Soil Conservation Committee

2552 H. J. Patterson Hall, Room 159
University of Maryland
College Park, Md. 20742
Tel: (301) 454-3546

AREAS OF INTEREST: Soil and water conservation in the State, including watershed protection, flood control, siltation of streams and reservoirs, shore erosion control, highway erosion control, forest and woodland conservation and development, protection and development of wildlife, and development of public land areas.

HOLDINGS: Booklets, pamphlets, brochures, microforms.

INFORMATION SERVICES: Makes referrals; makes available publications prepared by other organizations (publications are available from Dr. Fred P. Miller, Soil and Water Resource Specialist, Room 159, H. J. Patterson Hall, University of Maryland, College Park, Md. 20742, *tel:* 454-3547).

Water Resources Research Center

2553 University of Maryland
Shriver Laboratory
College Park, Md. 20742
Tel: (301) 454-3901

AREAS OF INTEREST: Analog computer simulation of water resource regimes; effects of thermal pollution on estuarine waters; reduction of stream pollution from agricultural wastes; improvement of water quality; elimination of sea nettles to improve recreational use of estuarine waters; methods for accelerated biodegradation of detergents.

PUBLICATIONS: Research findings, annual report.

INFORMATION SERVICES: Answers inquiries.

Wind Tunnel Operations Department

2554 College of Engineering
University of Maryland
College Park, Md. 20742
Tel: (301) 454-2413

AREAS OF INTEREST: Low speed aerodynamics, particularly experimental aerodynamics and relatively large scale subsonic wind tunnel testing.

HOLDINGS: 3,000 reports; 400 data compilations.

PUBLICATIONS: Research reports, data.

INFORMATION SERVICES: Answers inquiries; makes referrals; furnishes low speed wind tunnel testing services and research in incompressible flow.

UNIVERSITY OF MASSACHUSETTS

Department of Landscape Architecture

2555 University of Massachusetts
Amherst, Mass. 01002
Tel: (413) 545-2255

AREAS OF INTEREST: Landscape architecture; regional planning; landscape planning.

HOLDINGS: 3,000 books; 75 periodical titles; reports.

PUBLICATIONS: Bibliographies, reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services. Services are provided at cost to all users.

Department of Plant and Soil Sciences

2556 University of Massachusetts
Amherst, Mass. 01002
Tel: (413) 545-2243

AREAS OF INTEREST: Soil chemistry; soil fertility; soil physics; plant breeding; plant physiology; plant nutrition; growth regulators; herbicides; postharvest physiology; weed control; environmental physiology. The Department's primary concerns relate to horticultural and agronomic crops.

HOLDINGS: 100 periodical titles; reports.

PUBLICATIONS: Bulletins, reprints.

INFORMATION SERVICES: Answers inquiries; provides consulting services. Services are free, except for special consulting services.

Institute of Agricultural and Industrial Microbiology

2557 Marshall Hall
University of Massachusetts
Amherst, Mass. 01002
Tel: (413) 545-2288

AREAS OF INTEREST: Soil microbiology; public health bacteriology; microbial physiology; antiseptics and disinfectants; food bacteriology; chemistry and microbiology of waste product disposal; water pollution control; microscopy of water; water bacteriology; irrigation; rivers; streams; detergents in water; biodegradability of pesticides, herbicides, and pollutants.

HOLDINGS: 1,000 journals; 5,000 reprints; 1,000 pamphlets and booklets; 500 books; 500 technical reports; 10,000 punched cards; 5,000 graphs and tables.

PUBLICATIONS: Reports, brochure.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite use of collection.

Massachusetts Agricultural Experiment Station

2558 University of Massachusetts
Amherst, Mass. 01002
Tel: (413) 545-2766

AREAS OF INTEREST: Agricultural and food economics; agricultural engineering; environmental biology; natural resources (use and planning); water pollution; wood technology; recreation resources; agronomy; dairy science; animal science; entomology; plant pathology; food science and technology; forestry; wildlife management; horticulture; agricultural and industrial microbiology; veterinary science; poultry science; farm management.

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

Polymer Research Institute

2559 University of Massachusetts
Amherst, Mass. 01002
Tel: (413) 545-2727 or 545-2615

AREAS OF INTEREST: Polymers and plastics with specialization in physical chemistry, light scattering, birefringence, and X-ray studies; development of theories for polymer separation, configurational statistics of polymer chains, and polymer chain dimensions in dilute solution; thermodynamic studies of polymer systems, including thermal transitions, calorimetry, and high-pressure X-ray studies; diffusion in polymers and the physical chemistry of biopolymers; mechanisms and stereochemistry of polymerization reactions with emphasis on solid state polymerization and synthesis of high temperature polymers; chemorheology of polymers; rheology of polymer melts and of partially crystalline polymer systems; mechanical and thermal degradation of polymers.

HOLDINGS: Several hundred research reports, about 1,000 books, the principal journals in the polymer field, reprints, punched cards, and related educational material.

INFORMATION SERVICES: Answers inquiries; makes referrals; develops scientific meetings at the Institute; provides consulting services; permits onsite reference.

School of Engineering

2560 University of Massachusetts
Amherst, Mass. 01002
Tel: (413) 545-0300

AREAS OF INTEREST: Engineering, including chemical, civil, environmental, ocean, electrical, industrial, aerospace, and mechanical; operations research; some human factors work.

HOLDINGS: 16,202 books; 3,613 bound periodicals; 500 periodical titles; 18,000 NASA and other Federal publications. The School also has access to the holdings of other colleges through its participation in a Five College Library Program.

PUBLICATIONS: Reports, directories.

INFORMATION SERVICES: Answers inquiries; provides duplication services; lends materials; permits onsite use of collection. Consulting services are available at cost by arrangement with individual members of faculty.

Technical Guidance Center for Industrial Environmental Control

2561 University of Massachusetts
Marshall Hall, Room 40
Amherst, Mass. 01002
Tel: (413) 545-0347

AREAS OF INTEREST: Water and air pollution, management of solid wastes, and other environmental problems emanating from industrial operations.

HOLDINGS: 500 books; 50 periodical titles; 500 reports.

PUBLICATIONS: *T.G.C. Bulletin* (monthly); seminar proceedings, news releases.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference, literature-searching, and abstracting and indexing services; conducts seminars for fee. Services are available to anyone interested in industrial pollution abatement.

Water Resources Research Center

2562 Holdsworth Hall, Room 115
University of Massachusetts
Amherst, Mass. 01002
Tel: (413) 545-2842

AREAS OF INTEREST: Engineering, including agricultural, chemical, environmental, coastal, drainage, hydraulic, irrigation, sanitary, and soils engineering, particularly model building, ecological effects of physical alterations of the environment (e.g. bridges, roads), stochastics, subsurface irrigation devices, waste treatment systems, waste settling and aeration, use of dams in watershed storage increase, and application of engineering concepts, principles, and methods of water quality maintenance and control; geology, including hydrogeology, sedimentology, geomorphology, ground-water geology, drainage patterns, and aquifers; chemistry, including chemical wastes (industrial wastes, detergents, agricultural chemicals, nitrates, phosphates, pesticides, sewage), chemical degradation, chemical reactions (chlorination, hydrolysis, ionization, neutralization, nitrification, oxidation), and chemical properties of water; data processing, including computer programming, computer models, and water resources data storage and retrieval; social sciences, including planning and management institutions, water law, economic analysis, decisionmaking processes, and regional planning.

HOLDINGS: 1,500 books, reports, papers, and proceedings; periodicals, reprints, pamphlets, booklets.

PUBLICATIONS: Annual report, proceedings, selected papers, research reports, journal articles, reprint collections.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides limited in-house reference, bibliographic, and duplication services; lends library materials; distributes periodic listing of publication titles.

UNIVERSITY OF MIAMI

School of Marine and Atmospheric Sciences

Library

2563 School of Marine and Atmospheric Sciences
University of Miami
10 Rickenbacker Causeway
Miami, Fla. 33149
Tel: (305) 350-7207

AREAS OF INTEREST: Marine biology; functional biology; physical and chemical oceanography; marine geology and geophysics; ocean engineering; fishery science; atmospheric sciences.

HOLDINGS: About 6,000 books and 800 periodical titles; reports and contributions from marine installations throughout the world; Federal and State Government reports; extensive reprint file.

PUBLICATIONS: *Bulletin of Marine Science of the Gulf and Caribbean* (quarterly); *Studies in Tropical Oceanography* (irregular); *Fauna Caribaea* (irregular); *Proceedings of the Gulf and Caribbean Fisheries Institute* (annual); annual report. (These are publications of the Institute, not the Library itself).

INFORMATION SERVICES: Answers inquiries; provides reference services; makes interlibrary loans; permits onsite reference.

Facilities include a microfilm reader.

Radar Meteorological Laboratory

2564 School of Marine and Atmospheric Sciences
University of Miami
P.O. Box 8003
Coral Gables, Fla. 33124

Location:

Merrick Bldg., Room 501
University of Miami
Coral Gables, Fla.
Tel: (305) 284-3881

AREAS OF INTEREST: Applications of radar to meteorological analysis and research, with emphasis on tropics and subtropics; radar instrumentation for meteorological applications; propagation of radar microwaves in the atmosphere; normal and abnormal propagation; hurricane and tropical storm studies; satellite meteorological studies.

HOLDINGS: 300 books; 1,000 reports; journals.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Permits onsite use of literature collection; lends materials.

UNIVERSITY OF MICHIGAN

Ann Arbor Seismograph Station

2565 Department of Geology and Mineralogy
University of Michigan
Ann Arbor, Mich. 48104
Tel: (313) 663-1511 Ext. 617

AREAS OF INTEREST: Continuous recording of seismic waves.

HOLDINGS: Data records.

INFORMATION SERVICES: Answers inquiries; provides reference services. Seismograms are available through the U.S. Coast and Geodetic Survey Seismological Data Center, Washington, D.C. 20235.

Facilities include worldwide standard instruments, and short-period seismometers in a 1,200-foot well.

Background Analysis Center

2566 Willow Run Laboratories
Institute of Science and Technology
University of Michigan
P.O. Box 618
Ann Arbor, Mich. 48107
Tel: (313) 483-0500 Ext. 346

Sponsored by the Advanced Research Projects Agency of the Department of Defense, this Center collects and reviews documents on background radiation, analyzes data, and investigates background discrimination techniques.

AREAS OF INTEREST: Infrared background of the earth and near space (airglow, aurora, cloud structure and properties, aerosols, atmospheric transmission).

HOLDINGS: Primarily technical reports and data compilations; also books, journals, and periodicals.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services; furnishes data or data compilations; provides information on current research and development projects; renders technical evaluation of the accuracy, quality, and significance of information. Services are available to the ballistic-missile-defense community and other qualified requesters.

Ballistic Missile Radiation Analysis Center (BAMIRAC)

2567 Willow Run Laboratories
Institute of Science and Technology
University of Michigan
P.O. Box 618
Ann Arbor, Mich. 48107
Tel: (313) 483-0500 Ext. 247

AREAS OF INTEREST: Theory and technology pertaining to the chemical and physical processes which act to produce the optical phenomena associated with the flight of long range ballistic missiles and which may be useful in the design of defense systems, including radiative energy transfer, optical wavelengths, and physical and chemical spectroscopy.

HOLDINGS: Research reports.

PUBLICATIONS: Special scientific and technical reports, selective bibliographies, compilations.

INFORMATION SERVICES: Answers inquiries and provides consulting and literature-searching services; permits access to documents. Services are provided to Government agencies and their contractors having a security clearance and a certified need-to-know.

Chemistry-Pharmacy Library

2568 2200 Chemistry Bldg.
University of Michigan
Ann Arbor, Mich. 48104
Tel: (313) 764-7337

AREAS OF INTEREST: Chemistry; pharmacy; pharmaceutical chemistry.

HOLDINGS: About 39,000 volumes and 440 periodical titles.

INFORMATION SERVICES: Provides reference services; provides duplication services for fee; makes interlibrary loans; permits onsite reference.

Cooperative Information Center for Hospital Management Studies

2569 University of Michigan
220 East Huron St., 4th Floor
Ann Arbor, Mich. 48108
Tel: (313) 764-1380

AREAS OF INTEREST: Management and planning of hospitals, nursing homes, and other health care facilities, including design and construction, engineering and maintenance, manpower, and insurance; computer applications in hospitals; measurement of quality and effectiveness of organized medical care.

HOLDINGS: 6,500 studies and reports; special hospital administration library of 3,000 volumes and 125 periodicals.

PUBLICATIONS: *Abstracts of Hospital Management Studies* (quarterly, with annual cumulative volume).

INFORMATION SERVICES: Answers inquiries; provides bibliographical-searching services.

Engineering-Transportation Library

2570 Undergraduate Library Bldg.
University of Michigan
Ann Arbor, Mich. 48104
Tel: (313) 764-7494

AREAS OF INTEREST: Historical and current information about all aspects of transportation, including automobiles, highways, roadbuilding, traffic, aircraft, airports, ships, waterways, railroads, locomotives, cargos, and trade; current information about all aspects of engineering (except nuclear engineering), including aerospace, automotive, chemical, civil, electrical, industrial, mechanical, and marine engineering, computers and computer programming, materials, mechanics, metals and metallurgy, meteorology, naval architecture, oceanography, and certain aspects of chemistry, mathematics, and physics.

HOLDINGS: 350,000 books and bound volumes of periodicals; 1,000 journal and periodical titles; 50,000 Government documents and laboratory reports; 12,000 prints; 30,000 manuscript items; 8,000 automotive and maritime brochures; 3,000 railroad and canal company annual reports.

INFORMATION SERVICES: Lends materials; provides duplication services; permits onsite use of collection.

Great Lakes Research Division

2571 University of Michigan
1077 North University Bldg.
Ann Arbor, Mich. 48104
Tel: (313) 764-2420

AREAS OF INTEREST: Great Lakes research, including: water budget (inflows, outflows, energy budget, water levels, water storage); water quality; physical, chemical, and biological water pollution; winds, seiches, currents, waves, and tracers; air-water interface phenomena, mass transfer, heat transfer, and momentum transfer; effects of the Great Lakes on regional meteorological conditions, climate, precipitation evaporation, temperature, and air quality; ice cover, including extent and thickness, duration, importance to navigation, structure, shoreline modification, and ice formation and breakup; chronology of the Great Lakes, including paleolimnology, eutrophication, carbon-14 dating, sedimentary stratigraphy, paleogeography of regional vegetation, and climatic history of the Great Lakes region; erosion and deposition, distribution of sediment types, distribution of source materials, sediment load, modification of shoreline, currents, and identification of biological materials; lake basins, including core analyses, tectonic movements, magnetic field, gravitational field, seismic phenomena, heat flow, and morphology; biological productivity of the Lakes; engineering and development, including instrumentation, marine installations, shore protection and beach and harbor improvement, antifouling of ships, waste treatment, water purification, and waste outfalls and water intakes.

HOLDINGS: 1,500 books; 50 periodicals; 3,000 reprints plus bound volumes of reprints from the major oceanographic and freshwater installations in the world; technical reports, slides, statistical computations and analyses.

PUBLICATIONS: Research results are published in three series: *Publications* are major works too large to be published in professional journals and include the proceedings of the annual conference; *Contributions* present papers published in professional journals; and *Special Reports* have limited distribution.

INFORMATION SERVICES: Answers technical inquiries; permits onsite use of library collections by researchers.

Highway Safety Research Institute Library

2572 University of Michigan
Huron Parkway and Baxter Rd.
Ann Arbor, Mich. 48105
Tel: (313) 764-2171

AREAS OF INTEREST: All aspects of highway safety research, including the physical, biomedical, psychological, legal, financial, and social aspects.

HOLDINGS: 15,000 cataloged documents; 250 periodical titles; State accident statistics; card files of individuals and organizations having information in the field of highway safety. The Library also has ready access to the University of Michigan's full resources.

INFORMATION SERVICES: Provides reference and referral services; lends or duplicates materials as appropriate; permits onsite use of collection.

Infrared Information and Analysis Center (IRIA)

2573 Willow Run Laboratories
Institute of Science and Technology

University of Michigan
P.O. Box 618
Ann Arbor, Mich. 48107
Tel: (313) 483-0500 Ext. 281

AREAS OF INTEREST: All aspects of infrared technology (detection materials and elements, radiation sources, emission characteristics of natural and man-made objects, optical properties of materials, infrared spectra, laboratory components and techniques, optics and solid state physics, etc.), but especially military infrared technology, both components and systems.

HOLDINGS: About 17,000 items, including Government-sponsored research and development reports, journal articles, and some patents (bibliographic information for the 17,000 items is stored on magnetic tape). A library of reference books and bound journals supplements this collection.

PUBLICATIONS: *IRIA Annotated Bibliography* (quarterly); *Proceedings of the Infrared Information Symposia* (journal). Both publications bear a security classification. The Center also issues state-of-the-art reports, which may be either classified or unclassified.

INFORMATION SERVICES: Answers inquiries; provides consulting, literature-searching, and bibliographic services. Proprietary material is available only to authorized Government personnel, unless prior approval has been granted; classified material is available to those with the appropriate need-to-know. Requests for permission to visit the Center should be addressed to the Security Office of the Institute of Science and Technology at the above address. The Center provides a rate schedule of service charges.

Institute of Science and Technology

Industrial Development Division

2574 Institute of Science and Technology
University of Michigan
2200 North Campus Blvd.
Ann Arbor, Mich. 48105
Tel: (313) 764-5260

AREAS OF INTEREST: Michigan manufacturing industries such as tool and die, machine tools, automotive, electronic, chemical, metalworking, housing, and furniture; pollution.

HOLDINGS: 1,000 books; 25 periodical titles; 500 reports. The Division also has access to the collections of the University of Michigan Library, a branch of which is located within the building.

PUBLICATIONS: Reports, bibliographies, brochures. A publications list is available.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, and literature-searching services; makes referrals; permits onsite use of collection; sponsors seminars, workshops, and short courses. Services are provided free to Michigan residents and at cost to others.

Laboratory of Subsurface Geology

2575 Department of Geology and Mineralogy
University of Michigan
Ann Arbor, Mich. 48104
Tel: (313) 764-2434

AREAS OF INTEREST: Oil and gas wells in the Michigan Basin; stratigraphy; sedimentary rock; information systems.

HOLDINGS: 375 well cores; 15,000 drilling records; 2,200 electric logs from oil and gas wells; 4,000 well cuttings (mounted); 4,500 well cuttings (unmounted); 30,000 computerized well unit records as part of the Michigan well data system.

PUBLICATIONS: Annual index, research reports.

INFORMATION SERVICES: Provides consulting and reference services; provides computer access to information files and document reference file; permits onsite reference by all interested scientists and organizations.

Mathematics Library

2576 3027 Angell Hall
University of Michigan
Ann Arbor, Mich. 48104
Tel: (313) 764-7266

AREAS OF INTEREST: Mathematics, including actuarial mathematics, mathematical statistics, symbolic logic, and applications of mathematics to astronomy and physics.

HOLDINGS: 41,000 books and bound periodicals; 500 journal titles; microfilms, reports, journal article reprints.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite reference.

Michigan Memorial-Phoenix Project

2577 University of Michigan
North Campus
Ann Arbor, Mich. 48105
Tel: (313) 764-5298 Ext. 406N

AREAS OF INTEREST: Peaceful uses of nuclear energy in the physical, life, and social sciences; reactor design and construction; radiation utilization and effects; nuclear physics and chemistry; thermonuclear research.

HOLDINGS: 10,000 books; 100 periodicals; 50,000 reports; data. The Phoenix Library is a depository for Atomic Energy Commission publications.

PUBLICATIONS: Technical reports, annual report, articles for the general public, and specific reports available to industry and educational groups.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and duplication services, primarily to University personnel; makes interlibrary loans (excluding journals); provides consulting services through the Office of Director; permits onsite use of literature collection; performs radiation measurements and activation analysis.

Facilities include a 2 megawatt research reactor, two colbalt-60 sources, and other radiation facilities.

Mineral Museum

2578 Department of Geology and Mineralogy
University of Michigan
Ann Arbor, Mich. 48104
Tel: (313) 663-1511 Ext. 588

AREAS OF INTEREST: Rocks, minerals, ores, and meteorites.

HOLDINGS: Exhibit and research collections of rocks, minerals, ores, and meteorites, including special collections relating to Michigan, Sicilian sulfur, radioactive rocks, Antarctic rocks, and pre-Cambrian specimens from the western United States.

INFORMATION SERVICES: The Museum provides free consulting services and makes its collections available for direct use to all interested scientists.

Physics-Astronomy Library

2579 290 Physics-Astronomy Library
University of Michigan
Ann Arbor, Mich. 48104
Tel: (313) 764-3442

AREAS OF INTEREST: All areas of physics and astronomy, with selected holdings in biophysics, nuclear engineering, space technology, and atmospheric science.

HOLDINGS: 52,000 volumes; 1,100 serial titles; 400 technical reports; 300 preprints.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite reference.

Statistical Research Laboratory

2580 University of Michigan
106 Rackham Bldg.
Ann Arbor, Mich. 48104
Tel: (313) 764-4413

AREAS OF INTEREST: Statistical theory and methodology.

HOLDINGS: Books, journals, papers.

INFORMATION SERVICES: Provides consulting services to members of the University of Michigan and other publicly supported educational and scientific agencies.

Target Signature Analysis Center (TSAC)

2581 Willow Run Laboratories
Institute of Science and Technology
University of Michigan
P.O. Box 618
Ann Arbor, Mich. 48107
Tel: (313) 483-0500 Ext. 346

AREAS OF INTEREST: Data on targets and background materials of use in improving aerial reconnaissance and homing techniques, with emphasis on the electromagnetic characteristics, but including also acoustic, magnetic, gas, and seismic characteristics.

HOLDINGS: A collection of pertinent documents and a data bank containing optical (directional and bidirectional reflectance) and microwave (passive and active) data.

PUBLICATIONS: *Target Signature Analysis Center: Data Compilation* (reproduction of the data bank); an annotated bibliography of the document collection.

INFORMATION SERVICES: Provides selected bibliographies, data analysis, and consulting services to qualified requesters. Unclassified information and routine services are available to individuals engaged in Government research; classified requests must be approved by the Air Force Avionics Laboratory, Wright-Patterson Air Force Base, Ohio.

Water Resources Committee

2582 Department of Civil Engineering
University of Michigan
Ann Arbor, Mich. 48104
Tel: (313) 763-1464

AREAS OF INTEREST: Water resources and water use, including water resources science, economics, law, and engineering; pollution control; sanitary engineering; water organizations; oceanography; limnology and meteorology related to the Great Lakes area.

HOLDINGS: Materials on water resources are housed in the divisional libraries for engineering, public health, and natural resources.

PUBLICATIONS: Research reports, monographs.

INFORMATION SERVICES: Answers inquiries; makes referrals within the University without charge; provides consulting services by faculty for fee.

UNIVERSITY OF MINNESOTA

Mineral Resources Research Center

2583 University of Minnesota
Minneapolis, Minn. 55455
Tel: (612) 373-3341

AREAS OF INTEREST: Concentration of iron ores, including magnetite taconites, oxidized taconites, gravity ores, and wash ores; concentration of copper-nickel ores; exploitation of deposits of clay, marl, pyrite, and limestone; mineralogy, including identification and analysis.

HOLDINGS: Bibliographies on magnetic concentration, electrostatic concentration, and flotation.

PUBLICATIONS: *Mining Directory* (annual); *Progress Reports* (several times a year).

INFORMATION SERVICES: Answers inquiries; identifies rocks and minerals; analyzes mineral samples; conducts contract research.

The Station has laboratories equipped for mineral beneficiation by gravity, electrostatic, magnetic, flotation, and hydrometallurgical methods, and also laboratories for chemical analysis, X-ray diffraction and fluorescence, spectroscopy, ultraviolet and infrared spectrophotometry, radiochemistry, surface-area determination by BET and gas permeability methods, measurements of streaming potentials, and differential thermal and gravimetric analyses. Staff members also have ready access in other departments of the University to an electron microscope, an electron probe, digital and analog computers, and excellent library collections.

Minnesota Agricultural Experiment Station

2584 University of Minnesota
St. Paul Campus
St. Paul, Minn. 55101
Tel: (612) 373-0751

AREAS OF INTEREST: Agricultural production; home economics; forestry; agricultural economics; rural sociology; veterinary medicine.

PUBLICATIONS: *Minnesota Science* (quarterly); General and Technical Series Bulletins.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; sponsors seminars, conferences, and workshops.

Branch stations are located at Waseca, Lamberton, Morris, Crookston, Rosemount, and Grand Rapids, Minn.

School of Physics and Astronomy

The Observatories

2585 School of Physics and Astronomy
University of Minnesota
Minneapolis, Minn. 55455
Tel: (612) 373-7750

AREAS OF INTEREST: Motions of stars; white dwarfs; faint blue stars; infrared astronomy; astrophysics.

HOLDINGS: Films, photos, infrared observatorial records.

PUBLICATIONS: *A Search for Faint Blue Stars*; reports. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

Facilities include a 30-inch telescope and infrared photometers.

Space Science Center

2586 University of Minnesota
Minneapolis, Minn. 55455
Tel: (612) 373-5492

AREAS OF INTEREST: Space sciences and technology.

INFORMATION SERVICES: While information services are primarily intended for internal University of Minnesota organizations, inquiries from private industry or individuals will be received and referred to appropriate experts who may or may not be engaged for consulting service on a private arrangement basis not to interfere with normal university activities.

The Space Science Center is a building completed in 1969 as a central research facility for various colleges, institutes, and departments of the University of Minnesota engaged in space-related research work. The Center facilitates multidisciplinary participation in joint space research ventures and common utilization of high-cost research equipment such as electron microscopes, incubators, environmental chambers, special test equipment, etc., and promotes a greater exchange of ideas and information between various university organizations interested in space research projects. Research groups from 12 university departments are currently assigned to the 64,000 square feet of laboratory, office, and shop facilities available in the building.

St. Anthony Falls Hydraulic Laboratory

2587 University of Minnesota
Mississippi River at 3d Ave. SE.
Minneapolis, Minn. 55414
Tel: (612) 373-2782

AREAS OF INTEREST: Hydraulics; fluid mechanics; hydrology; stratified flow; flow in flumes and culverts and through gates and valves; river control structures such as dams, spillways, and ship locks; river channel development, revetment, and canalization; erosion; sedimentation; soil conservation structures; rainfall-runoff relation; ground-water flow; thermal plumes in water; air-water mixture flows in closed and open conduits; instruments for measuring and controlling water; water tunnel design; aerodynamics; underwater ballistics; turbines; hydrofoils.

HOLDINGS: The Lorenz G. Straub Memorial Library, a specialized library, houses a substantial number of books in the above areas, as well as a large number of reports from other research organizations throughout the world.

PUBLICATIONS: About 200 reports on research projects; photos, motion pictures, data, bibliography, translations. A list of publications and motion pictures is available. Test results of some projects are available only to the sponsoring agency.

INFORMATION SERVICES: Answers inquiries; lends motion pictures.

The Laboratory has facilities for hydraulic research of all types.

Technical Information Service

2588 Walter Library
University of Minnesota
Minneapolis, Minn. 55455
Tel: (612) 373-5938

AREAS OF INTEREST: Transfer of business and technological information to Minnesota industry.

HOLDINGS: Directory-referral files listing details about organizations or individuals who have a service available to industry. The Service also uses the library of the University.

PUBLICATIONS: Directories of information outlets in Minnesota, especially in the Twin Cities area; special bibliographical surveys; literature information and resource guides for industry; brochures.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference, abstracting and indexing, and literature-searching services for fee. Xerox copies of books, articles, and reports are provided (for fee) from the University campus or will be ordered from any location in the world. The Service also occasionally purchases report literature for industry. Services are primarily for individuals in industry, research laboratories, business and technical associations, and related activities.

University of Minnesota Library

2589 Minneapolis, Minn. 55455
Tel: (612) 373-3097

AREAS OF INTEREST: Bacteriology; medicine; botany; zoology, including economic zoology; nursing; dentistry; chemistry; chemical, mechanical, civil, and electrical engineering; geology; geography; mines; metallurgy; mathematics; physics; pharmacy, including history of pharmacy; agriculture; biochemistry; entomology; forestry; veterinary medicine; meteorology; wildlife conservation.

HOLDINGS: 510,000 books and journals; reports, maps, microfilm. The collections are maintained in separate service units. Those located on the Minneapolis Campus are the Biomedical Library (includes medicine, botany, zoology, nursing, and dentistry), Chemistry Library, Geology Library, Map Library, Engineering Library, Mines, Metallurgy, and Chemical Engineering Library, Mathematics Library, Physics Library, and Pharmacy Library. Those located on the St. Paul Campus are the Agriculture Library, Biochemistry Library, Entomology Library, Forestry Library, Plant Pathology Library, and Veterinary Medicine Library.

INFORMATION SERVICES: Makes interlibrary loans to out-of-town scholars; permits onsite reference.

Water Resources Research Center

2590 Hubbard Bldg., Room 107
2675 University Ave.
St. Paul, Minn. 55114
Tel: (612) 646-6309

AREAS OF INTEREST: Aeration; aquatic biology; aquatic ecology; aqueous solutions; aquifers; canals; chlorination; corrosion; dams; detergents in water; docks; droughts; erosion; eutrophication; evaporation; evapotranspiration; fish diseases; fishkills; floods and flood control; fluid mechanics; fluoridation; water gaging; glaciology; ground water and ground-water recharge; hydraulics; hydrodynamics; hydrogeology; hydrometeorology; hydrostatics; ice and icing; water instrumentation; irrigation; lakes; limnology; water pollution control and abatement; sources and effects of pollution; precipitation; rain and rainfall; reservoirs; rivers; runoff; saline tolerance of crops; sedimentation; sewage treatment; sewers and sewerage; snow; soil-water relationships; solutes and solutions; storms; streamflow; subsurface engineering; industrial, municipal, and radioactive wastes; waste treatment; waste water; water analysis; water chemistry; water conservation; water cycle; water distribution; water economics; water law; water measurement; water microbiology; water purification; water quality; water reclamation; water requirements and projections; water resources information systems, legislation, management, manpower, planning, publications, and research; water reuse; water rights; watersheds; water supply engineering; municipal, private, public, rural, and urban water supply; water treatment; agricultural, industrial, municipal, recreational, and rural water use; waterways; wells.

HOLDINGS: The Center's collection of books, journals, abstract literature, newsletters, reprints, pamphlets, and clippings is maintained by the University Library.

PUBLICATIONS: Circulars and Bulletins containing current information on State and national water resources research (available free on request).

INFORMATION SERVICES: Provides literature references and assistance in locating bibliographic materials; provides advisory services; makes referrals; permits onsite use of library collection.

UNIVERSITY OF MISSISSIPPI

School of Engineering

2591 University of Mississippi
University, Miss. 38677
Tel: (601) 232-8186 (Dean's Office)

AREAS OF INTEREST: Aeronautical, chemical, civil, electrical, electromagnetic theory, microwave and antenna technology, industrial, mechanical, gas dynamics, aerospace, geological, metallurgical, and mining engineering; engineering mechanics; soil and water conservation research.

HOLDINGS: 4,000 books and bulletins in departmental and faculty hands.

PUBLICATIONS: *Engineering Experiment Station Bulletin* (irregular); *Ole Miss Engineer* (4 issues per academic year).

INFORMATION SERVICES: Answers inquiries; provides consulting services for fee.

UNIVERSITY OF MISSOURI AT COLUMBIA

College of Engineering

Network Analyzer

2592 College of Engineering
University of Missouri
Columbia, Mo. 65201
Tel: (314) 449-9155

AREAS OF INTEREST: Network analyzer; power systems; power transmission; computer applications.

INFORMATION SERVICES: Answers brief inquiries; provides consulting services for fee.

Engineering Experiment Station

2593 University of Missouri
Columbia, Mo. 65201
Tel: (314) 449-8287

AREAS OF INTEREST: Chemical, civil, electrical, industrial, mechanical, aerospace, nuclear, and sanitary engineering.

HOLDINGS: 150 reports; patents, data.

PUBLICATIONS: *Engineering Experiment Station Bulletins* (irregular); *Engineering Extension Series*; proceedings.

INFORMATION SERVICES: Provides consulting services.

Geology Library

2594 University of Missouri
201 Geology Bldg.
Columbia, Mo. 65201
Tel: (314) 449-9241 Ext. 226

AREAS OF INTEREST: Geology, including economic geology, petroleum geology, sedimentology, mineralogy, hydrogeology, and glacial geology; paleontology; crystallography; geophysics; chemistry; seismology.

HOLDINGS: 30,000 books; journals, maps, charts.

INFORMATION SERVICES: Provides reference services through the general library at the University; permits onsite reference.

Industrial Referral Center

2595 University of Missouri
131 Engineering Bldg.
Columbia, Mo. 65201
Tel: (314) 449-8247

AREAS OF INTEREST: Engineering, including acoustics, adhesives, aerodynamics, air conditioning, air pollution, automatic controls, automotive, bioengineering, catalysis, ceramics, chemical engineering, chemical kinetics, chemistry, civil engineering, computer science, concrete, construction, corrosion, cryogenics, data and information systems, direct energy conversion, electrical circuits, electrical engineering, electrical machinery, electrochemistry, electromagnetic radiation, electronics, environmental control, fluid mechanics, foundry practices, fuels and combustion, gas dynamics, geology, geophysics, heat transfer, heating and ventilating, highway engineering, illumination, industrial engineering, industrial hygiene, industrial waste treatment, instrumentation, insulation, internal combustion, irrigation, lubrication, machine design, maintenance, management, mass transfer, materials, materials handling, mathematics, mechanical engineering, mechanics, metallurgy, meteorology, methods and work simplification, microwaves, mining, nondestructive testing, nuclear engineering, nucleonics, oceanology, operations research, optics, packaging, petroleum, physics, plant layout, power generation, production control, quality control, radio communication, refrigeration, reliability, safety, sanitary engineering, soil mechanics, solid state, space science, standards, stress analysis, structural design, surveying and mapping, systems design and analysis, telecommunications, thermodynamics, transportation, transmission and distribution, vacuum, water pollution, and water resources; business administration, including accounting, advertising, antitrust policy, auditing, banking, budgets, buying, business law, collective bargaining, communications, community planning, company evaluation, company organization, computers, corporate planning, corporation finance, cost accounting, cost reduction, credit, data processing, decision theory, dietetics, economic analysis, economic development, econometrics, EDP systems, employee benefits, executive management, finance, food processing, forecasting, government procurement, governmental regulation, income determination, income tax, imports and exports, industrial development, insurance, international economics, investments, labor relations, laboratory testing, research analysis, location economics, macroeconomics, management control and planning, manufacturing, market research and analysis, marketing, materials handling, microeconomics, office procedures, operations research, organization, packaging, patents, pension plans, personnel testing and evaluation, plant layout, pricing, product development, production profit sharing, public relations, purchasing, real estate, retailing, safety, salary plans, job evaluation, merit ratings, sales promotion, security analysis, site location, small business practices, statistics, supervisory knowledge, systems analysis, taxes, traffic and transportation, valuation, and wage administration; applied science, including architecture, chemical formulations, artificial intelligence, agricultural engineering, composite materials science, elastomer and rubber technology, law, magnetism, mathematical logistics, noise reduction, quantum electronics, rock design, and shell structures.

HOLDINGS: The Center library includes 150 engineering applications handbooks, a number of technical engineering films, directories, and catalogs. The Center also utilizes the collections of Linda Hall Library in Kansas City, Mo., the University of Missouri--Columbia Library, and the University of Missouri--Rolla Library.

PUBLICATIONS: Reports (quarterly and annual), brochures, directories, catalogs.

INFORMATION SERVICES: Answers inquiries; provides reference services; makes referrals; lends handbooks and technical films. The Center utilizes faculty expertise on the following campuses to relate to manufacturing problems: University of Missouri--Columbia, Rolla, St. Louis, and Kansas City, Washington University, St. Louis University, Drury College, and Central Missouri State College.

Research Reactor Facility

2596 University of Missouri
Columbia, Mo. 65201
Tel: (314) 449-9515

AREAS OF INTEREST: Nuclear reactor design and utilization; applications of radiation and radioisotopes; biological effects of radiation.

HOLDINGS: Books, periodicals, reports, punched cards, photos, slides, nuclear instrumentation, bibliographies, publication lists, data, 5 MW Research Reactor.

INFORMATION SERVICES: Answers inquiries; provides consulting services; provides neutron activation analysis; permits onsite reference.

Water Resources Research Center

2597 University of Missouri
424 Clark Hall
Columbia, Mo. 65201
Tel: (314) 449-8128

AREAS OF INTEREST: Aquatic biology and ecology; aqueous solutions; basin systems; climatology; evaporation and evapotranspiration; ground- and surface-water hydrology; hydrometeorology; irrigation; karst hydrology; lake ecology; reservoir capacity of soils; streamflow; water gaging; water microbiology; water quality and mineral content; water pollution; water law.

HOLDINGS: Project reports, proceedings of meetings and symposia, books, periodicals.

PUBLICATIONS: A technical report series giving summaries of research results.

INFORMATION SERVICES: Answers inquiries concerning research projects; makes referrals to faculty specialists. The Center furnishes copies of its publications at cost.

UNIVERSITY OF MISSOURI AT KANSAS CITY

Technological Information Center

2598 University of Missouri
5109 Cherry St.
Kansas City, Mo. 64110
Tel: (816) 276-1460

AREAS OF INTEREST: Science and technology (excluding clinical medicine and surgery); mathematics; astronomy; physics; chemistry; geology; biological sciences; engineering and applied science.

HOLDINGS: The Center is located in the Linda Hall Library building and uses the collections of that Library. (See entry for Linda Hall Library for a description of its holdings.)

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, reference, literature-searching, abstracting, and translation services. To a limited extent, services are free to Missouri and Kansas users; all others are charged a fee.

UNIVERSITY OF MISSOURI AT ROLLA

Computer Science Center

2599 University of Missouri
Harris Hall
Rolla, Mo. 65401
Tel: (314) 364-1803

AREAS OF INTEREST: Computer science; information processing; data processing; educational programs; programming languages; systems analysis; numerical solution of differential equations; matrix computations; statistical methods; information storage and retrieval; operations research; linear programming; simulation techniques; computer systems; numerical analysis.

HOLDINGS: 2,000 books; 250 reports; 60 reviews; 3,000 microfiche; 100 reels of magnetic tape; 500 periodicals; 1 million punched cards; 500 manuals; pamphlets, data sheets, special reports.

PUBLICATIONS: *User's Guide*; *Programming Notes*; pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and consulting services on the solution of engineering and scientific problems, utilizing computer systems, and on the development of computer installations in educational institutions and the establishment of computer science and information processing educational programs for high schools, junior colleges, and colleges.

Computing equipment includes an IBM 360/50 digital computer system with 262,000 bytes of core storage, and extensive peripheral equipment.

Library

2600 University of Missouri
Rolla, Mo. 65401
Tel: (314) 364-2547

AREAS OF INTEREST: Ceramic, chemical, civil, electrical, mechanical, metallurgical (and nuclear applications), and mining engineering; geology; mathematics; physics; geophysics; rock mechanics and related research on explosives; air and water pollution; mechanics.

HOLDINGS: 130,000 books; 60,000 journals; maps, charts, films, photos. Special collections include all publications of the U.S. Atomic Energy Commission and the U.S. Geological Survey.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite reference.

UNIVERSITY OF MONTANA

Montana Forest and Conservation Experiment Station

2601 School of Forestry
University of Montana
Missoula, Mont. 59801
Tel: (406) 243-2211

AREAS OF INTEREST: Forestry; wood technology; wildlife; range management; hydrology; soil and water conservation; forest economics; entomology; fire science; resource management; recreation.

HOLDINGS: About 4,900 books, 30,000 bulletins, pamphlets, etc., and 230 journals; samples of tree cores, woods, plants, insects, and soils.

PUBLICATIONS: Bulletins, research notes, special publications, Lubrecht series (all irregular); accessions lists (3 a year).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; provides analytical, testing, and identification services in wood technology.

UNIVERSITY OF NEBRASKA

Computing Center

2602 225 Nebraska Hall
University of Nebraska
Lincoln, Nebr. 68508
Tel: (402) 472-3175

AREAS OF INTEREST: Information storage and retrieval; computer programming.

HOLDINGS: A resource file containing educational, financial, and testing information on students, teachers, and facilities of Nebraska's public and private primary and secondary schools; tapes containing the entire 89 chapters of the statutes of the State of Nebraska that can be searched by using the logical operators OR, AND, BUT NOT, and LESS, as well as positional operators at the word and sentence level; the text of "Dolce stil nuovo" (Poets of the new style), which is a collection of 13th century Italian poetry; rules and regulations of the Board of Regents of the University of Nebraska. Other personnel files are not cataloged.

PUBLICATIONS: Textbooks for advanced law and business courses, printed by extracting subsets of Nebraska's statutes; concordance of "Dolce stil nuovo"; User's Manual of the University of Nebraska Computing Center (also in machine readable form).

INFORMATION SERVICES: Answers inquiries; provides consulting services; performs searches of the education information file and the Nebraska State law for fee; permits onsite and offsite remote query of the various holdings mentioned above after they have been brought from tape to a disk drive or a data cell; performs fixed field searches over a "persons wanted file" and other files structured in this fashion.

Conservation and Survey Division

2603 University of Nebraska
Lincoln, Nebr. 68508
Tel: (402) 477-8711

AREAS OF INTEREST: Conservation of natural resources; geology; soils; ground water; water supply; water quality; hydrogeology; water law; droughts; wells.

HOLDINGS: Thousands of fossils and oil-well drill cores; hundreds of photos, slides, maps, charts, graphs, tables, display materials, and technical reports; punched cards, reviews, reprints, publication lists, news releases.

PUBLICATIONS: Bulletins, technical reports, and maps on Nebraska water resources, most of which deal with specific localities within the State. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite reference; identifies geologic materials; tests general quality of water samples within the State.

Water Resources Research Institute

2604 212 Agricultural Engineering
University of Nebraska
Lincoln, Nebr. 68503
Tel: (402) 472-3307

AREAS OF INTEREST: Water resources systems and development; evapotranspiration; water rights; water quality and pollution; water resources data; urban-rural interface in water problems.

HOLDINGS: Materials on water resources are kept in the University library.

PUBLICATIONS: Annual report, miscellaneous reports, newsletter.

INFORMATION SERVICES: Answers specific technical inquiries; makes referrals to specialists.

UNIVERSITY OF NEVADA

Desert Research Institute

2605 University of Nevada
Reno, Nev. 89507
Tel: (702) 784-6541

AREAS OF INTEREST: Hydrology; atmospheric physics; climatology; geochemistry; biochemistry; chemistry; biology; X-ray spectrographic analysis; ecology; botany; computer science.

PUBLICATIONS: News bulletin, reports.

INFORMATION SERVICES: Answers inquiries; conducts research and provides consulting services on a grant or contract basis.

In addition to its laboratory facilities, the Institute administers the Charles and Henriette Fleischmann Atmospherium-Planetarium, in which lapsed-time photographs of the entire sky are projected on a dome for accelerated, dyanmic portrayal of typical and extreme atmospheric conditions.

Center for Water Resources Research

2606 Desert Research Institute
University of Nevada
Water Resources Bldg.
Reno, Nev. 89507
Tel: (702) 784-6955

AREAS OF INTEREST: All aspects of water resources, particularly as related to water in arid and semiarid lands; water supply; water quality; water chemistry; water storage; water use; precipitation; ground-water management; runoff; streams; basins; watersheds; evaporation control; hydrology; hydrogeology; drainage; recreational use of water; plant-water relationships; conjunctive use of surface and ground water; ground-water flow systems in Nevada.

HOLDINGS: 3,000 volumes on botany, water, geology, and physics.

PUBLICATIONS: Technical reports, project reports, brochure.

INFORMATION SERVICES: Answers inquiries; provides consulting services; permits onsite use of literature collection.

Engineering Library

2607 University of Nevada
Reno, Nev. 89507
Tel: (702) 784-6945

AREAS OF INTEREST: Civil, electrical, mechanical, and nuclear engineering; applied mathematics; computer technology and computer applications.

HOLDINGS: 10,000 books; 3,000 bound journals; 3,300 unbound journals; 8,000 pamphlets and Government publications.

PUBLICATIONS: Periodical holdings list (irregular); new book list (monthly).

INFORMATION SERVICES: Provides reference services (onsite, by telephone, or by mail); makes interlibrary loans. Duplication services are available in the building for a fee.

Mackay School of Mines--Nevada Bureau of Mines--Nevada Mining Analytical Laboratory

2608 Mackay School of Mines
University of Nevada
Reno, Nev. 89507
Tel: (702) 784-6987

The Mackay School of Mines is the educational, research, and public service center for the mineral industry of Nevada. The Nevada Bureau of Mines and the Nevada Mining Analytical Laboratory are the public service divisions of the School.

AREAS OF INTEREST: Mining engineering; geological engineering; mineral industry; metallurgical engineering; geology; geography; petroleum; geophysics; geochemistry; hydrology; hydrogeology; chemical engineering.

HOLDINGS: 6,500 books; 5,000 bound journals; 6,000 unbound journals; 18,000 Government publications; 40,000 maps.

PUBLICATIONS: Bulletins, reports, maps.

INFORMATION SERVICES: Provides reference and consulting services; makes interlibrary loans; permits onsite use of collection; identifies, analyzes, and evaluates minerals, rocks, and ores found in Nevada.

Nevada Agricultural Experiment Station

2609 University of Nevada
Reno, Nev. 89507
Tel: (702) 784-6611

AREAS OF INTEREST: General agriculture; agricultural production and marketing; distribution and utilization of agricultural products; arid land, including deserts and ranches; soils; animal diseases; internal parasites of animals; insect pests; plant diseases; animal and plant breeding; family living; natural resources; biochemistry.

HOLDINGS: Documents received by the Station are housed in the University's Life Science Library.

PUBLICATIONS: *Ranch and Home Review* (semiannual); reports.

INFORMATION SERVICES: Services are primarily for farmers; the public is served within the limits of time available.

University of Nevada Library

2610 Reno, Nev. 89507
Tel: (702) 784-6509

AREAS OF INTEREST: Mineral industry; earth sciences; engineering; Nevada history and history of the West; agriculture; physics; chemistry; economics; water resources; atmospheric science.

HOLDINGS: 418,000 books; 4,500 journals; 600,000 microforms; 25,000 reports; films, photos, and other audiovisual materials. The Library is a depository for Federal, State, and United Nations documents. Material on the mineral industry and earth sciences is housed in the Mackay School of Mines Library, material on engineering is housed in the Engineering Library, material on physics and chemistry in the Physical Sciences Library, material on agriculture and biology in the Life and Health Sciences Library; and material on atmospheric sciences in the Desert Research Institute Library.

INFORMATION SERVICES: Provides reference and duplication services to the local scientific and technical community; makes interlibrary loans.

The Library houses an Audio-Visual Center, including television, photography, and motion picture production.

UNIVERSITY OF NEW HAMPSHIRE

Engineering Experiment Station

2611 University of New Hampshire
Durham, N.H. 03824
Tel: (603) 868-5511 Ext. 233

AREAS OF INTEREST: Mathematics; physics; chemistry; engineering, including chemical, civil, electrical, and mechanical; physical tests on metals; chemical analyses; microscopy; X-ray and radium techniques.

HOLDINGS: About 55,000 books, reports, and other items.

PUBLICATIONS: *New Hampshire Horizons* (quarterly).

INFORMATION SERVICES: Answers inquiries; provides consulting services for fee.

New Hampshire Agricultural Experiment Station

2612 University of New Hampshire
Durham, N.H. 03824
Tel: (603) 862-1450

AREAS OF INTEREST: Plant and animal science; forestry; home economics; natural and environmental resources; basic life sciences.

PUBLICATIONS: *New Hampshire Progress Report* (irregular).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services as time and staff permit.

Water Resources Research Center

2613 University of New Hampshire
Durham, N.H. 03824
Tel: (603) 862-2144

AREAS OF INTEREST: Conservation of water resources in New Hampshire; hydrology; surface waters; toxicology; water quality; water chemistry.

PUBLICATIONS: Bulletins, professional journals, annual report.

INFORMATION SERVICES: Answers brief inquiries; makes referrals.

UNIVERSITY OF NEW MEXICO

Bureau of Engineering Research

2614 University of New Mexico
Albuquerque, N. Mex. 87106
Tel: (505) 243-8611

AREAS OF INTEREST: Chemical, civil, electrical, mechanical, and nuclear engineering.

HOLDINGS: Reports.

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Provides consulting services.

Eric H. Wang Civil Engineering Research Facility

2615 P.O. Box 188, University Station
University of New Mexico
Albuquerque, N. Mex. 87106
Tel: (505) 264-4644

AREAS OF INTEREST: Nuclear blast effects above and below ground; design of structures best able to withstand nuclear blast effects; structural mechanics; soil mechanics; gas dynamics; instrumentation; pavements.

PUBLICATIONS: Reports, proceedings.

INFORMATION SERVICES: Provides technical data and consulting services primarily to Government agencies and their contractors, but some reports are distributed to independent organizations, such as research laboratories.

Technology Application Center

2616 University of New Mexico
Albuquerque, N. Mex. 87106
Tel: (505) 277-3118

AREAS OF INTEREST: Utilization and application of all aerospace-related science and technology, with special emphasis on remote sensing of earth resources.

HOLDINGS: Most of the NASA-assembled information base, including over 200,000 documents on microfiche, over 350,000 abstracts, over 7,000 hard copy documents, computer tapes covering over 350,000 documents, a series of update tapes bringing 5,000 to 6,000 newly selected documents into the base each month, and abstract journal series, including *USGRDR*, *NSA*, *Chemical Abstracts*, and the *Engineering Index*; a unique bank of commercially available imagery, data, and evaluation reports derived from NASA's "Remote Sensing" and "Earth Resources" programs, including professional reproductions of earth photographs from the Gemini and Apollo satellites.

INFORMATION SERVICES: Provides advisory, consulting, and identification services--abstracts and documents, current awareness services, retrospective searches, industrial applications reports, satellite photography of the earth (in either slide or print, color or black and white), and commercial access to additional earth resources and remote sensing data as it is released by NASA. Services are provided on a cost-fee basis.

UNIVERSITY OF NORTH CAROLINA

Institute of Marine Sciences

2617 University of North Carolina
Box 629
Morehead City, N.C. 28557
Tel: (919) 726-6841

AREAS OF INTEREST: Life history, taxonomy, and ecology of marine invertebrates, fishes, and fungi; oceanography of estuarine areas; ecosystems of salt-water ponds; pesticide monitoring; underwater acoustics; rearing of marine invertebrates; meristic structures of fishes.

HOLDINGS: 4,000 slides and 2,000 herbarium specimens of marine fungi; 2,200 cataloged series of mollusks; 4,300 cataloged lots of about 65,000 fishes; 2,150 cataloged lots of crustaceans; macroplankton collections from 1,000 stations; specialized library of 1,200 books, 150 periodical titles, 16,000 reprints, estuarine bibliography, coastal charts, and topographic maps.

PUBLICATIONS: Papers published in scientific journals.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services; provides identification of marine and estuarine species; makes interlibrary loans; permits onsite reference.

Water Resources Research Institute

2618 North Carolina State University
Raleigh, N.C. 27607
Tel: (919) 755-2815

AREAS OF INTEREST: Water resources.

HOLDINGS: Federal and State agency reports, project reports of State institutes, water resource papers, journals.

PUBLICATIONS: Project reports, monthly newsletter, proceedings.

INFORMATION SERVICES: Disseminates research findings; answers inquiries; makes referrals; provides contract services with Water Resources Scientific Information Center, U.S.D.I.

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

Chemistry Library

2619 University of North Carolina
Venable Hall
Chapel Hill, N.C. 27514
Tel: (919) 933-1188

AREAS OF INTEREST: Chemistry, with emphasis on physical and theoretical chemistry.

HOLDINGS: 25,520 volumes; 249 current journals.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite reference.

Computation Center

2620 University of North Carolina
Phillips Hall
Chapel Hill, N.C. 27514
Tel: (919) 933-2018 or 933-2019

AREAS OF INTEREST: Computer sciences and their applications.

HOLDINGS: 250 books; 2,000 papers, reports, reprints, etc.; 30 reels of magnetic tape; IBM System 360 publications; UNIVAC 1105 publications.

PUBLICATIONS: Reports and manuals as need arises or projects are completed.

INFORMATION SERVICES: Provides reference and limited duplication services; makes materials available on request; permits onsite use of literature collection.

Department of Environmental Sciences and Engineering

2621 School of Public Health
University of North Carolina
Chapel Hill, N.C. 27514
Tel: (919) 966-1171

AREAS OF INTEREST: Sanitary engineering, including water supply, waste water disposal, and air quality; water resources planning; air and water pollution control; environmental chemistry; environmental biology; environmental health management; food protection; occupational health and industrial hygiene; radiation health physics.

HOLDINGS: Books, periodicals, reports.

PUBLICATIONS: *Water Supply and Sanitation in Developing Countries* (irregular serial); newsletter (quarterly).

INFORMATION SERVICES: Answers inquiries; provides consulting services for fee if warranted.

Geology Library

2622 University of North Carolina
Mitchell Hall
Chapel Hill, N.C. 27514
Tel: (919) 933-2386

AREAS OF INTEREST: Geology, including economic geology, geomorphology, mineralogy, petrology, sedimentation, stratigraphy, structural geology, paleontology, meteorology, and oceanography.

HOLDINGS: 24,400 books and bound periodicals; 634 journals; 52,000 maps.

INFORMATION SERVICES: Provides reference services; provides duplication services for fee; makes interlibrary loans (periods of 2 weeks); permits onsite reference.

Mathematics-Physics Library

2623 University of North Carolina
Phillips Hall
Chapel Hill, N.C. 27514
Tel: (919) 933-2323

AREAS OF INTEREST: Mathematics, specifically algebra, analysis, applied mathematics, geometry, number theory, statistics, and topology; physics, with emphasis on atomic, molecular, electromagnetic, nuclear, solid state, and theoretical physics; information science.

HOLDINGS: 35,833 volumes; 523 journals received.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite reference.

Morehead Planetarium

2624 University of North Carolina
Chapel Hill, N.C. 27514
Tel: (919) 933-1237

AREAS OF INTEREST: Astronomy and related sciences; celestial recognition and navigation training of astronauts and NASA programmers.

HOLDINGS: 300 books and monographs; 550 periodicals; 350 slides; pamphlets, press releases.

PUBLICATIONS: Pamphlets. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals.

UNIVERSITY OF NOTRE DAME

Chemistry and Physics Research Library

2625 Nieuland Science Bldg.
University of Notre Dame
Notre Dame, Ind. 46556
Tel: (219) 283-7203

AREAS OF INTEREST: Chemistry; physics; chemical engineering.

HOLDINGS: 53,000 volumes, including 1,500 University of Notre Dame science dissertations; 500 periodical titles; 15,000 reports.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference; provides photocopying services.

College of Engineering Library

2626 University of Notre Dame
Notre Dame, Ind. 46556
Tel: (219) 283-6665

AREAS OF INTEREST: Aerospace, mechanical, civil, electrical, metallurgical, and materials engineering, with emphasis on design and research. Disciplinary areas include flight dynamics, structural dynamics, magnetic materials, thermal systems, fluid mechanics, environmental health, electrophysics, systems analysis, information theory, imperfections in solids, computers, continuum mechanics, cryogenics, and theoretical mechanics.

HOLDINGS: 13,519 volumes; 750 journal subscriptions. An additional 26,130 volumes are in temporary storage in the Memorial Library.

PUBLICATIONS: Technical reports, conference proceedings.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services; makes interlibrary loans; permits onsite reference.

Department of Civil Engineering

2627 College of Engineerirg
University of Notre Dame
Notre Dame, Ind. 46556
Tel: (219) 284-6173

AREAS OF INTEREST: Civil engineering; chlorination; corrosion; pesticides and detergents in water; water pollution control and abatement; effects and sources of water pollution; sewerage; industrial and municipal wastes; waste treatment; waste water; water analysis; water chemistry; water microbiology; water purification; water quality; water reuse; water softening; water treatment; tertiary waste water treatment; aquatic biology and ecology; limnology; eutrophication of lakes; municipal water supply engineering; municipal, industrial, and recreational water use; analysis of the hydrologic cycle for surface and ground water; limnological and oceanographic design; aquifers; dams; desalination; droughts; erosion; estuaries; evaporation; evapotranspiration; floods and flood control; fluid mechanics; water gaging; water recharge; harbors; hydraulics; hydrodynamics; hydrogeology; hydrometeorology; irrigation; precipitation; rain and rainfall; reservoirs; rivers; runoff; sedimentation; snow; soil-water relationships; storms; streamflow; streams; water data telemetry; water cycle; water economics; water law; water power; water legislation; watersheds; waterways; weather modification.

INFORMATION SERVICES: Answers inquiries; provides consulting services for fee; provides physical, chemical, and biological analyses of water and waste water for fee.

Facilities include four research laboratories; two lakes on campus; Univac 1107 digital computer and two Pace TR-20 and one TR-48 analog computers; and machine and glassblowing shops.

Mathematics and Computing Science Library

2628 Computing Science Bldg.
University of Notre Dame
Notre Dame, Ind. 46556
Tel: (219) 284-7278

AREAS OF INTEREST: Pure and applied mathematics; theory and application of computer science.

HOLDINGS: 15,000 books and journals.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference.

Radiation Chemistry Data Center

2629 Radiation Laboratory
University of Notre Dame
Notre Dame, Ind. 46556
Tel: (219) 283-6527 or 283-6528

AREAS OF INTEREST: Radiation chemistry, especially kinetic data on reactions in chemically definable systems brought about by ionizing radiation, and also including radiation-induced luminescence; esr spectra; radiolysis mechanisms and radiation yields.

HOLDINGS: 16,000 papers and reports in the form of reprints, abstracts, microfiche or full-size reports, etc.

PUBLICATIONS: *Weekly List* (of papers on radiation chemistry).

INFORMATION SERVICES: Answers inquiries for specific information or data; prepares bibliographies and preliminary compilations on request; provides assistance to authors of critical reviews. Services are available to all scientific and technical personnel with a professional interest in the field.

The Center is a program of the Radiation Laboratory which has various facilities for radiation research, including cobalt-60 gamma-ray sources, a Van de Graaff generator, an alpha-particle source, and instrumentation for spectrometry (mass, UV, Raman, infrared, and esr). The Radiation Laboratory has a UNIVAC 418 computer and is adjacent to the computing center which houses a UNIVAC 1107.

UNIVERSITY OF OKLAHOMA

Bureau of Water Resources Research

2630 University of Oklahoma
Norman, Okla. 73069
Tel: (405) 325-5913

AREAS OF INTEREST: Engineering and hydrology, economics, demography, and law as they relate to water resources; water pollution; systems and their impact on other resources, such as air, soil, etc.

HOLDINGS: Journals, correspondence, data.

INFORMATION SERVICES: Answers inquiries; provides literature-searching and consulting services for fee; permits onsite reference by qualified visitors.

Chemistry Library

2631 206 DeBarr Hall
University of Oklahoma
Norman, Okla. 73069
Tel: (405) 325-5628

AREAS OF INTEREST: Chemistry in all fields, including biochemistry.

HOLDINGS: 7,775 books; 10,600 bound journals; 230 active journal titles; 158 continuations; 1,500 volumes on microfilm and microcards; 60 maps and charts; 380 texts and laboratory manuals; 400 uncataloged pamphlets and reprints.

INFORMATION SERVICES: Makes interlibrary loans; provides duplication services.

College of Engineering Library

2632 Felgar Hall
University of Oklahoma
Norman, Okla. 73069
Tel: (405) 325-2941

AREAS OF INTEREST: All aspects of technology and applied science, including aeronautical, chemical, civil, electrical, geological, industrial, materials, mechanical, metallurgical, meteorological, nuclear, sanitary, and petroleum engineering.

HOLDINGS: 23,289 books; 504 periodicals; reports, microfilm, standards, specifications, data.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services; provides duplication services for fee; makes direct and interlibrary loans (interlibrary loans through Main Library); permits onsite reference.

Computation Center

2633 University of Oklahoma
Norman, Okla. 73069
Tel: (405) 536-0900 Ext. 2091

AREAS OF INTEREST: Engineering computations, numerical analysis, medical and biological computations, data searching, computer programming, mathematical tables in number theory, and related areas.

HOLDINGS: A library of books, journals, and reports; punched cards, magentic tapes.

INFORMATION SERVICES: Answers technical inquiries; lends computer programs; provides consulting services for fee; provides computation and data processing services for research purposes to professors from any college or university on a gratis or at-cost basis and at commercial rates to others; provides current project reports, punched cards, and magnetic tapes of programs at cost; permits onsite use of literature collection.

Core and Sample Library

2634 School of Geology and Geophysics
University of Oklahoma
Norman, Okla. 73069
Tel: (405) 325-4386

AREAS OF INTEREST: Rock cores and samples from boreholes.

HOLDINGS: Rock cores and samples from boreholes, which are cataloged on file cards showing location of holes by land division and the intervals cored or sampled; an additional card catalog giving names of geologic formations of cored sections.

INFORMATION SERVICES: Lends cores and samples from the State of Oklahoma to interested companies or individuals for a nominal fee; permits onsite reference and provides rooms for examination, boxing, and shipping. A list of cores in storage, with the name of borehole, location, interval, and geologic formation cored, is sent periodically to interested persons as new cores are added to the collection.

Department of Physics and Astronomy

Physics Library

2635 Department of Physics and Astronomy
440 West Brooks
University of Oklahoma
Norman, Okla. 73069
Tel: (405) 325-2031

AREAS OF INTEREST: Physics, including mathematical, solid state, theoretical, atomic and molecular, plasma, elementary particle, and nuclear physics and optics; astronomy and astrophysics.

HOLDINGS: 12,161 books; 332 periodical titles; 1,448 reports from the U.S. Atomic Energy Commission; data on tubes; microfilms.

INFORMATION SERVICES: Answers inquiries; provides reference, bibliographic, consulting, and duplication (Xerox coin machine) services; makes referrals; lends books; permits onsite reference.

Geology Library

2636 101 Gould Hall
University of Oklahoma
Norman, Okla. 73069
Tel: (405) 536-0900 Ext. 2278

AREAS OF INTEREST: Geology-paleontology; palynology; mineralogy; geophysics.

HOLDINGS: 80,000 volumes; 220 periodical titles; special collections on Oklahoma Corporation Commission Well Logs, electric logs, and Research Oil Scout tickets for Oklahoma. Material is collected in English, Chinese, Russian, Japanese, Italian, Spanish, French, and German.

INFORMATION SERVICES: Permits onsite reference; makes interlibrary loans of microfilms; provides reference and literature-searching services as time permits.

Government Depository Library

2637 University of Oklahoma
Norman, Okla. 73069
Tel: (405) 325-3141

AREAS OF INTEREST: Nuclear science.

HOLDINGS: Publications of the U.S. Atomic Energy Commission and the National Aeronautics and Space Administration. The Library receives and retains all documents that are made available to depository libraries.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans; permits onsite reference. Duplication services are available within the building.

Oklahoma Center of Urban and Regional Studies

2638 University of Oklahoma
650 Parrington Oval, Room 205
Norman, Okla. 73069
Tel: (405) 325-6591

AREAS OF INTEREST: The broad field of urban affairs, including urban planning and development, public health, transportation, social and economic studies, and legislation relating to urban growth and planning.

HOLDINGS: A working research library of about 2,000 current books and 25,000 additional items of research material, such as brochures, reports, plan documents, periodicals, and special reports related to urban planning and development. There are also a few historical collections, including copies of the original Chicago Plan, the New York Regional Plan, and early plans of other cities in the United States and the Southwest; a rather complete file of the American Planning and Civic Association Proceedings and publications of the American Institute of Planners, Urban Land Institute, and The Advisory Service of the American Society of Planning Officials; and the *Traffic Quarterly* and *Journal of Housing*.

INFORMATION SERVICES: Answers inquiries; provides reference services; makes referrals; permits onsite use of collections by approved researchers.

Science Library

2639 University of Oklahoma
Norman, Okla. 73069
Tel: (405) 325-2441

AREAS OF INTEREST: Botany; plant science; microbiology; zoology; mathematics; biochemistry; anthropology; psychology; psychiatry; plant nutrition; plant pathology; physiology; biology; natural history.

HOLDINGS: Over 75,000 books; 550 periodical titles.

PUBLICATIONS: Bibliographies, reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, reference, literature-searching, and duplication services; makes interlibrary loans; permits onsite use of collection. Services are available to the University community and to scientists and other professionals.

UNIVERSITY OF OREGON

University Library

Science Division

2640 University of Oregon Library
Eugene, Oreg. 97403
Tel: (503) 686-2378

AREAS OF INTEREST: Science; mathematics and mathematical statistics; astronomy; physics; chemistry; geology; paleontology; palynology; biology; botany; zoology; physiology; health education; physical education; electronics; mining; chemical technology; medicine.

HOLDINGS: 151,000 books; 43,000 bound journals; 600 titles on microcards and microfilms.

INFORMATION SERVICES: Provides reference services; makes interlibrary loans.

UNIVERSITY OF PENNSYLVANIA

Department of Astronomy

Flower and Cook Observatory

2641 RD 2
Malvern, Pa. 19355
Tel: (215) 644-4584

AREAS OF INTEREST: Photometric and spectroscopic studies of eclipsing binary stars; cosmic rays; high energy nuclear reactions in stellar atmospheres; astronomical instrumentation.

HOLDINGS: Astronomical journals and observatory serials at a completeness level of about 99 percent; a copy of the Card Catalogue of Eclipsing Binaries.

PUBLICATIONS: Publications of the University of Pennsylvania Astronomical Series.

INFORMATION SERVICES: Provides bibliographies from the literature of eclipsing binary stars.

Facilities include a 28.5 reflector equipped with optical and infrared photometers, a 15-inch refracting siderostat equipped with two-channel pulse-counting photometers, a 24-inch reflector furnished with digitized single-channel photometer, a 10.5-inch astrograph for wide field photography, teaching instruments, and extensive optical shop testing equipment.

Edgar Fahs Smith Memorial Collection

2642 University of Pennsylvania
Van Pelt Library, 6th Floor
Philadelphia, Pa. 19104
Tel: (215) 594-7553

AREAS OF INTEREST: History of alchemy, chemistry, and allied disciplines (physics, medicine, metallurgy, pharmacy, philosophy, mineralogy, pyrotechnics).

HOLDINGS: 10,000 books; special collections of early alchemical and chemical manuscripts, letters of chemists, and portrait prints of chemists and chemical apparatus.

INFORMATION SERVICES: Provides reference, duplication, and photocopying services (apply to Curator).

Mathematics-Physics Library

2643 University of Pennsylvania
209 South 33d St.
Philadelphia, Pa. 19104
Tel: (215) 594-8173

AREAS OF INTEREST: Mathematics; physics; astronomy; nuclear physics.

HOLDINGS: 33,000 volumes; 330 periodical titles; 30,000 reports and 140,000 microfiche from the U.S. Atomic Energy Commission (a depository collection). Foreign literature includes materials in Russian, Spanish, French, and German.

INFORMATION SERVICES: Provides consulting services; makes interlibrary loans of books; permits onsite reference.

Moore School of Electrical Engineering Library

2644 University of Pennsylvania
200 South 33d St.
Philadelphia, Pa. 19104
Tel: (215) 594-8135

AREAS OF INTEREST: Electrical engineering, including electric power, electronics, control and instrumentation, computers, biomedical electronic engineering, and allied fields, such as mathematics and physics.

HOLDINGS: 25,000 books; 330 periodical titles.

INFORMATION SERVICES: Permits onsite reference; makes interlibrary loans; makes direct loans to adults who apply to the Van Pelt Library for borrowing privileges; provides duplication services.

Towne Scientific Library

2645 University of Pennsylvania
33d and Locust St.
Philadelphia, Pa. 19104
Tel: (215) 594-7266

AREAS OF INTEREST: Chemistry; chemical, nuclear, aeronautical, mechanical, civil, and metallurgical engineering; engineering mechanics; materials.

HOLDINGS: 58,000 books; 450 periodical titles added annually; 35,000 microcards; 10,000 reports.

INFORMATION SERVICES: Answers inquiries; provides duplication services for fee; makes direct loans of circulating items to adults who apply to the Van Pelt Library for borrowing privileges; permits onsite reference.

UNIVERSITY OF PITTSBURGH

Allegheny Observatory

2646 University of Pittsburgh
Riverview Park
Pittsburgh, Pa. 15214
Tel: (412) 321-2400 or 321-2401

AREAS OF INTEREST: Astronomy; stellar distances; radial velocities; orbits and masses of double stars.

HOLDINGS: 7,000 books; 100,000 cataloged photographic plates of stars; maps and charts.

PUBLICATIONS: *Publications of the Allegheny Observatory* (irregular); annual report, abstracts.

INFORMATION SERVICES: Provides consulting and reference services; permits onsite reference; makes interlibrary loans. Services are available to bona fide researchers only.

Chemistry Library

2647 University of Pittsburgh
222 Alumni Hall
Pittsburgh, Pa. 15213
Tel: (412) 621-3500 Ext. 7166

AREAS OF INTEREST: Organic, physical, inorganic, and analytical chemistry.

HOLDINGS: 13,000 books and bound journals.

INFORMATION SERVICES: Permits onsite reference; makes interlibrary loans according to code; offers computerized current awareness services for *Chemical Condensates* and *Chemical Titles*.

Computer Science Library

2648 University of Pittsburgh
728 Cathedral of Learning
Pittsburgh, Pa. 15213
Tel: (412) 621-3500 Ext. 7185

AREAS OF INTEREST: Computer programming; computer science; numerical analysis; programming language; information retrieval; data processing; logic.

HOLDINGS: 2,200 books; 135 periodical titles; 2,000 reports.

INFORMATION SERVICES: Answers inquiries; provides reference and literature-searching services; makes interlibrary loans; permits onsite reference.

Department of Civil Engineering

2649 325 Engineering Hall
University of Pittsburgh
Pittsburgh, Pa. 15213
Tel: (412) 621-3500 Ext. 6134

AREAS OF INTEREST: Civil engineering, including structural mechanics, structural engineering, model analysis, structural testing, computer analysis, soil mechanics, seepage, slope stability, rock mechanics, foundation engineering, transportation planning, transportation systems and modeling, and urban systems; ground-water and surface-water hydrology; runoff; evaporation; sedimentation; water level measurement; water quality and water quality management; sewage and industrial waste treatment; advanced waste treatment; solid waste management; thermal contamination; treatment of public and industrial water supplies; distribution systems; hydraulic structures; fluid mechanics; hydraulics; open channels; stochastic hydrology; economic and administrative analyses of water resources projects; desalination.

HOLDINGS: 14,000 books and monographs; 400 journals, abstracts, and bibliographies; technical reports, standards and specifications, research theses and dissertations.

INFORMATION SERVICES: Answers technical inquiries; provides bibliographic and consulting services (a fee is charged for extensive consultation); provides duplication services at cost; makes interlibrary loans; disseminates reprints of papers on request; permits onsite use of literature collection.

Facilities include water and waste water analysis laboratories; fluid mechanics, hydraulics, and hydrology laboratories; digital and analog computer centers; soil mechanics and mineralogy laboratories; rock mechanics, photoelastic, and model analyses laboratories; structural test bay; and a materials testing laboratory.

Engineering Library

2650 University of Pittsburgh
700 Engineering Hall
Pittsburgh, Pa. 15213
Tel: (412) 621-3500 Ext. 6165

AREAS OF INTEREST: Chemical, civil, electrical, environmental, industrial, mechanical, metallurgical and materials, and petroleum engineering.

HOLDINGS: Over 20,000 books and journals.

INFORMATION SERVICES: Permits unrestricted access to the collection; makes interlibrary loans according to the ALA code. Photocopying services (from hard or microcopy) are available.

Knowledge Availability Systems Center

2651 University of Pittsburgh
Pittsburgh, Pa. 15213
Tel: (412) 621-3500 Ext. 6352

AREAS OF INTEREST: Identification of pertinent scientific, technical, marketing, and management information to encourage the application of new technologies to industrial and academic problems.

HOLDINGS: NASA tapes, technical publications, and information products; *Chemical Abstracts Condensates* tapes; *Chemical Titles* tapes. The Center also has access to *Engineering Index Compendex* and Defense Documentation Center files through the NASA Regional Dissemination Center Communications Network.

INFORMATION SERVICES: For a fee based on the cost of processing, clients receive consultation and computerized search services (retrospective and current awareness), abstracts, documents, and special reports.

Mathematics Library

2652 University of Pittsburgh
802 Schenley Hall
Pittsburgh, Pa. 15213
Tel: (412) 621-3500 Ext. 273

AREAS OF INTEREST: Mathematics.

HOLDINGS: 8,000 books and journals.

INFORMATION SERVICES: Permits onsite reference; makes interlibrary loans according to code.

Natural Science Library

2653 University of Pittsburgh
A-217 Langley Hall
Pittsburgh, Pa. 15213
Tel: (412) 621-3500 Ext. 7244

AREAS OF INTEREST: Biology; earth sciences; microbiology; biophysics; psychology; biochemistry.

HOLDINGS: 16,000 books and journals.

INFORMATION SERVICES: Permits onsite reference; makes interlibrary loans according to code.

Physics Library

2654 University of Pittsburgh
115 Alexander J. Allen Hall
Pittsburgh, Pa. 15213
Tel: (412) 621-3500 Ext. 263

AREAS OF INTEREST: Physics.

HOLDINGS: 14,000 books and journals.

INFORMATION SERVICES: Permits onsite reference; makes interlibrary loans according to code.

UNIVERSITY OF PUERTO RICO

Department of Marine Sciences

2655 University of Puerto Rico
Mayaguez, Puerto Rico 00708
Tel: (174) 832-4078

AREAS OF INTEREST: Marine biology; physical, geological, biological, and chemical oceanography; geophysics.

HOLDINGS: Reference collections of specimens; a departmental library specialized in marine sciences publications.

PUBLICATIONS: Contributions (collected reprints), in bound volumes, of staff publications (distributed on exchange basis with other institutions).

INFORMATION SERVICES: Answers inquiries; permits onsite reference.

Institute of Tropical Meteorology

2656 Box 22931
University of Puerto Rico Station
Rio Piedras, Puerto Rico 00931
Tel: (809) 766-0000

AREAS OF INTEREST: Tropical meteorology.

HOLDINGS: 600 books; 1,500 reports; journals, data.

PUBLICATIONS: Research reports, annual report.

INFORMATION SERVICES: Answers inquiries; makes referrals; makes interlibrary loans; permits onsite use of collection.

Puerto Rico Agricultural Experiment Station

2657 Mayaguez Campus
University of Puerto Rico
Rio Piedras, Puerto Rico 00927
Tel: (809) 766-1240

AREAS OF INTEREST: Tropical agriculture; agricultural economics; animal and plant sciences; livestock; soils; biology; chemistry; food technology; rum technology.

HOLDINGS: Books, journals, and reports, in all major languages.

PUBLICATIONS: *Journal of Agriculture of the University of Puerto Rico* (quarterly); technical reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite use of literature collection.

Branch stations are located at Lajas, Gurabo, Corozal, Fortuna, Isabela, and Adjuntas, Puerto Rico.

UNIVERSITY OF RHODE ISLAND

Department of Civil Engineering

2658 University of Rhode Island
Kingston, R.I. 02881
Tel: (401) 792-2692

AREAS OF INTEREST: Civil engineering; curved beam highway bridges; soil mechanics of ocean sediments; flocculation in aquatic media; flexible pavement design; cement (stabilized soils); factors affecting overgrowth of *G. condidum*; bio-oxidation using chemical additives; analysis of deep sea cores.

HOLDINGS: Small collection of reports.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Provides consulting services for fee; provides copies of technical reports free.

Department of Fisheries and Marine Technology

2659 University of Rhode Island
210 Woodward Hall
Kingston, R.I. 02881
Tel: (401) 792-2559

AREAS OF INTEREST: Technical aspects of commercial fisheries, including fishing vessels, nets and gear, engineering, fish handling and processing, and navigation and vessel operation; commercial fisheries education programs; commercial fisheries extension activities.

HOLDINGS: Small reference collection of books, periodicals, and reports.

PUBLICATIONS: Commercial fisheries newsletter (bimonthly); technical reports, extension bulletins.

INFORMATION SERVICES: Answers inquiries; provides consulting services, usually on contract basis.

Department of Food and Resource Chemistry

2660 University of Rhode Island
Kingston, R.I. 02881
Tel: (401) 792-2466

AREAS OF INTEREST: Soil humic acids; carotenoids; pesticides; lipids.

PUBLICATIONS: Feed and fertilizer bulletins; contributions to scientific journals.

INFORMATION SERVICES: Provides soil test services and advice on pesticides.

Department of Geology

2661 University of Rhode Island
Kingston, R.I. 02881
Tel: (401) 792-2265

AREAS OF INTEREST: Regional geology; mineralogy; petrology; paleontology (micro); coastal geomorphology; sedimentation; geochemistry; rock mechanics; geohydrology.

HOLDINGS: Literature collection of about 6,000 items, including books, periodicals, and reports; geologic and topographic maps; rocks, minerals, fossils.

INFORMATION SERVICES: Answers inquiries; provides consulting services, usually at cost; makes referrals; permits onsite use of collection.

Department of Mechanical Engineering

2662 University of Rhode Island
Wales Hall
Kingston, R.I. 02881
Tel: (401) 792-2524

AREAS OF INTEREST: Mechanical engineering and applied mechanics.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services. Services are provided free to students and for fee to Government and industry users.

Division of Engineering Research and Development

2663 University of Rhode Island
Bliss Hall
Kingston, R.I. 02881
Tel: (401) 792-2188

AREAS OF INTEREST: Chemical, sanitary, and structural engineering; electronics and electronic equipment; detection; communications; soil mechanics; metallurgy; properties of materials and optics.

HOLDINGS: Reports, journals, reprints.

PUBLICATIONS: Articles, research results.

INFORMATION SERVICES: Provides consulting services on metallurgical problems of limited scope to local industries; makes results of original research available as reprints; permits onsite use of collection.

Graduate School of Oceanography

2664 Narragansett Marine Laboratory
University of Rhode Island
Kingston, R.I. 02881
Tel: (401) 792-6222

AREAS OF INTEREST: Biological, chemical, geological, and physical oceanography, including population genetics; productivity and ecology of inshore waters; ocean circulation and current observations; wave studies and small-scale circulations; origin of the sea floor; turbulence defects of rotation; small-scale interactions; estuarine ecology and coral reef studies; geology and continental margins; zooplankton ecology; chemistry of sea water; biochemistry, physiology, and ecology of marine organisms; chemical detection of prey by predators; chemical studies of organic matter in sediments; fisheries and population ecology using computer techniques; submarine volcanism and rare earth geochemistry; algal substances in the sea, their chemistry and microbiology; phytoplankton ecology and physiology; geophysical hydrodynamics; ocean circulation studies; animal behavior bioacoustics orientation.

HOLDINGS: The Pell Marine Science Library has about 8,000 volumes, mostly in periodicals, 1,000 serial and periodical titles and technical reports series, 9,000 reprints, and a special collection of scientific results of oceanographic expeditions.

PUBLICATIONS: *Maritimes* (quarterly); *Collected Reprints* of research staff (irregular, Vols. 1-5, 1958-67, published so far); *Proceedings of a Symposium on Mineral Resources of the World Ocean* (1968); *Proceedings of the Second Sea Grant Conference* (1968); other occasional publications.

INFORMATION SERVICES: Answers inquiries. The Pell Marine Science Library permits onsite use of its collections and provides reference services as time and circumstances permit. Interlibrary loan service is provided through the main campus library. The New England Marine Resources Information Program and the University Marine Advisory Service are located in the Pell Library.

Rhode Island Agricultural Experiment Station

2665 113 Woodward Hall
University of Rhode Island
Kingston, R.I. 02881
Tel: (401) 792-2475

AREAS OF INTEREST: Food and resource chemistry, food and resource economics, animal science, horticulture, agronomy, plant and animal pathology, forestry, and fisheries and marine technology, particularly tissue culture, turfgrass management, ornamental horticulture, food science, soil chemistry, pesticide chemistry, rural development, and environmental quality and aesthetics.

PUBLICATIONS: *Rhode Island Resources* (quarterly); technical bulletins, circulars, abstracts, journal articles. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

Water Resources Center

2666 University of Rhode Island
213 Crawford Hall
Kingston, R.I. 02881
Tel: (401) 792-2267

AREAS OF INTEREST: Nonradioactive nuclear plant effluent; natural radio elements in raw water; aeration; structural chemistry of iron-organic complexes in fresh water; organic matter and trace elements in fresh water; control of copper content in fresh water; ground-water characteristics by resistivity criteria; interception of precipitation by oak forests; scale reduction in desalination processes; water economy of turf grass; water consumption based on economic and social characteristics of households;

effect of nematodes on water quality; dynamic behavior of soils; iron and manganese removal from water supplies; analysis of trace metals in water; correlation of structure vs. activity of pollutants in fresh water; soil freezing; buoyancy and sinking characteristics of fresh water phytoplankton; methods used to study viral flora of estuaries, streams, and ponds; plecoptera-biological index of fresh water quality.

INFORMATION SERVICES: Answers inquiries.

UNIVERSITY OF ROCHESTER

Technical Information Center

2667 University of Rochester
Rochester, N.Y. 14627
Tel: (716) 275-3866

AREAS OF INTEREST: Physical and biological sciences; physics; optics; medicine; history of medicine; dentistry; space science; radiation biology; engineering.

HOLDINGS: The Center has access to the holdings in the University library system, which includes the central library and 14 specialized libraries having over 1,000,000 volumes and 10,300 serial titles, and which is a depository for U.S. Government documents.

PUBLICATIONS: Reports (quarterly).

INFORMATION SERVICES: Answers inquiries; makes referrals; prepares bibliographies; provides duplication services; arranges for translations; makes interlibrary loans.

UNIVERSITY OF SOUTH CAROLINA

College of Engineering

Chemical System Group

2668 University of South Carolina
Columbia, S.C. 29208
Tel: (803) 777-4181 or 777-4182

AREAS OF INTEREST: Waste water reclamation; removal from water of organic materials by adsorption techniques and of inorganic materials by ion-exchange; kinetics of exchange of materials in water and sediment, with emphasis on estuarine waters; industrial waste treatment, including textile, chemical, pulp-mill, and radioactive wastes; corrosion; municipal water use; detergents in water; flocculation and coagulation; zeta-potential measurements of colloids and colloidal phenomena; effects and sources of water pollution; water chemistry; economics of water treatment.

INFORMATION SERVICES: Answers inquiries; provides consulting services without charge to municipalities, and for fee to others.

Facilities include research laboratories, portable water laboratory for field work, Beckman total-carbon analyzer, zeta-potential measurement equipment, including ultramicroscopy, environmental chambers, ion-exchange and adsorption facilities, Engelhard Isorpta Analyzer for total surface area and pore size distribution determinations, and access to IBM 7040 computer.

Computer Center

2669 University of South Carolina
Columbia, S.C. 29208
Tel: (803) 777-5211

AREAS OF INTEREST: Application and design of digital computers.

HOLDINGS: 500,000 punched cards; 190 books; 175 periodicals; 350 pamphlets; abstracts, indexes.

INFORMATION SERVICES: Answers inquiries; provides consulting services to non-University persons on fee basis; permits limited onsite reference.

Melton Memorial Observatory

2670 Department of Physics and Astronomy
University of South Carolina
Columbia, S.C. 29208
Tel: (803) 777-4108 or 777-4121

AREAS OF INTEREST: Astronomy.

HOLDINGS: Books, periodicals, publication lists, bibliographies, booklets.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Facilities include a 16-inch reflector with 4-inch photographic guide scope, photographic capabilities, and a photoelectric star magnitude device.

Science Library

2671 University of South Carolina
Columbia, S.C. 29208
Tel: (803) 777-3151

AREAS OF INTEREST: Biology; chemistry; geology; engineering; pharmacy; physics.

HOLDINGS: About 27,000 books, 26,000 bound journal volumes, and 1,100 periodical subscriptions.

INFORMATION SERVICES: Answers inquiries; provides reference services; provides duplication services for fee; makes interlibrary loans.

UNIVERSITY OF SOUTHERN CALIFORNIA

Western Research Application Center (WESRAC)

2672 University of Southern California
Los Angeles, Calif. 90007
Tel: (213) 746-6132

AREAS OF INTEREST: Location, dissemination, and applications of science and technology reports.

HOLDINGS: NASA's computer indexed data bank of over 700,000 engineering and scientific documents on 20,000 subjects; Department of Defense computerized file; other large specialized computer indexed files. The holdings increase by about 35,000 items a month.

INFORMATION SERVICES: The Center's services are provided, for a fee, through a specialist who establishes personal contact with the requester to define the problem. The specialist devises the proper computer search strategy to extract from NASA and other data banks the applicable documents, evaluates the results, and provides the client with a final selection of abstracts. The client chooses the items desired and the Center provides full copies of the documents chosen at cost. Services include (1) retrospective searches, (2) monthly up-dating searches of the newly added documents covering the client's specific area of interest, and (3) periodic conferences, seminars, and workshops that bring together the people conducting the research and development with client companies for discussion and exchange of ideas.

UNIVERSITY OF SOUTHWESTERN LOUISIANA

Dupre Library

2673 University of Southwestern Louisiana
P.O. Box 199, USL Station
Lafayette, La. 70501
Tel: (318) 233-3850

AREAS OF INTEREST: All major subject areas, with emphasis on microbiology, computer science, geology, petroleum, and horticulture.

HOLDINGS: 23,000 books; 800 periodical titles. The Library is a partial depository for State and Federal documents.

INFORMATION SERVICES: Answers inquiries; provides reference services; provides duplication services for fee; makes interlibrary loans; permits onsite reference.

UNIVERSITY OF TENNESSEE

Engineering Experiment Station

2674 University of Tennessee
Cumberland Ave.
Knoxville, Tenn. 37920
Tel: (615) 974-2316

AREAS OF INTEREST: Engineering; highway materials and construction; bulk handling of materials; antenna design; stresses in gusset plates.

HOLDINGS: Technical reports.

PUBLICATIONS: Research reports and bulletin (both irregular); conference proceedings (annual).

INFORMATION SERVICES: Provides consulting services.

Engineering Library

2675 Ferris Hall
University of Tennessee
Knoxville, Tenn. 37916
Tel: (615) 974-5320

AREAS OF INTEREST: Engineering, including electrical, mechanical, civil, aerospace, and aeronautical.

HOLDINGS: 29,000 books; 500 journal subscriptions; NASA technical reports.

INFORMATION SERVICES: Makes interlibrary loans; provides duplication and very limited literature-searching services; permits onsite reference.

School Planning Laboratory

2676 University of Tennessee
Box 8530
Knoxville, Tenn. 37916
Tel: (615) 974-2217

AREAS OF INTEREST: Planning of school buildings and educational spaces.

HOLDINGS: 5,000 books; 50 periodical titles; reports.

PUBLICATIONS: Periodicals, books, reports, specifications.

INFORMATION SERVICES: Provides consulting and reference services.

Science Library

2677 672 Buehler Hall
University of Tennessee
Knoxville, Tenn. 37916
Tel: (615) 974-3270

AREAS OF INTEREST: General science; chemistry; physics; mathematics; geology; chemical engineering; nuclear engineering; metallurgy.

HOLDINGS: 50,000 books; 1,000 journal subscriptions; AEC technical reports depository collection.

INFORMATION SERVICES: Makes interlibrary loans; provides duplication and very limited literature-searching services; permits onsite reference.

Space Institute Library

2678 University of Tennessee
Tullahoma, Tenn. 37388
Tel: (615) 455-0631

AREAS OF INTEREST: Aerospace sciences, including mathematics and physics; aerospace, electrical, mechanical, and metallurgical engineering; plasma physics and spectroscopy.

HOLDINGS: 5,000 books; 200 periodical titles; 25,000 reports.

PUBLICATIONS: Reports, M.S. and Ph.D. theses.

INFORMATION SERVICES: Makes interlibrary loans.

Tennessee Agricultural Experiment Station

2679 University of Tennessee
Knoxville, Tenn. 37916
Tel: (615) 974-7121

AREAS OF INTEREST: General agriculture; agricultural industries; plant science; forestry; animal science; social sciences; agricultural economics; agricultural engineering; horticulture; food technology; home economics; dairy science; tobacco; cotton fiber; plant pathology; poultry; radioisotopes in agricultural research; radiobiology.

HOLDINGS: A literature collection of 40,000 items.

PUBLICATIONS: *Tennessee Farm and Home Science* (quarterly); technical reports and bulletins.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

Branch Stations: West Tennessee Experiment Station, Jackson, Tenn.; Middle Tennessee Experiment Station, Spring Hill, Tenn.; Highland Rim Experiment Station, Springfield, Tenn.; Dairy Experiment Station, Lewisburg, Tenn.; Plateau Experiment Station, Crossville, Tenn.; Tobacco Experiment Station, Greeneville, Tenn.; UT–AEC Agricultural Research Laboratory, Oak Ridge, Tenn.; Ames Plantation, Grand Junction, Tenn.; University of Tennessee at Martin, Department of Agriculture, Martin, Tenn.; Milan Field Station, Milan, Tenn.; Cumberland Forest, Wartburg, Tenn.; Highland Rim Forest, Tullahoma, Tenn.

Water Resources Research Center

2680 University of Tennessee
1000 White Ave.
Knoxville, Tenn. 37916
Tel: (615) 974-2151

AREAS OF INTEREST: All water-related research, including but not limited to that involving physical, chemical, and biological aspects, economics, recreation, legal problems, and remote sensing of water characteristics.

HOLDINGS: A library containing interdisciplinary water-related documents, books, and periodicals.

PUBLICATIONS: Research reports; annual reports on all on-going research.

INFORMATION SERVICES: Answers technical inquiries; provides advisory services; makes referrals.

UNIVERSITY OF TEXAS

Division of Natural Resources and Environment

Institute of Marine Science, Engineering, and Resources Library

2681 Box 368
Port Aransas, Tex. 78373
Tel: (512) 749-5281

AREAS OF INTEREST: Graduate research and training in the marine sciences, including zoology, chemistry, geology, microbiology, botany, ecology, water resources, environmental health engineering, ichthyology, fisheries, and bacteriology, with emphasis on the Gulf of Mexico, lagoons, bays, and estuaries.

HOLDINGS: Specimens of fish (Gulf area), mollusks (Texas coast, Alacran Reef), macroscopic algae (Texas coast), and Phycotheca Boreali-Americana algae (North America); 6,300 books and bound periodicals; 1,000 special reports; reprints.

PUBLICATIONS: *Contributions in Marine Science* (annual).

INFORMATION SERVICES: Answers inquiries; provides reference services; permits onsite reference by researchers; makes interlibrary loans for cost of postage.

UNIVERSITY OF TEXAS AT AUSTIN

Applied Research Laboratories

2682 The University of Texas
P.O. Box 8029
Austin, Tex. 78712

Location:

10,000 FM Rd. 1325
Austin, Tex.
Tel: (512) 836-1351

AREAS OF INTEREST: Aeromechanics, experimental and theoretical, including skin friction, heat transfer, and supersonic aerodynamics, up to Mach 5; radio science, including microwave radar, very low frequencies (sferics), satellite tracking, and ionospheric propagation at VHF; electro-optical systems, including infrared, visible, and ultraviolet; airborne armament systems, including homing systems; underwater sound, including high resolution sonar, ASW sonar, Doppler sonar, reflection and scattering of sound by ocean boundaries, propagation of sound in inhomogeneous media, acoustic properties of sediments, signal processing in domains of spatial and temporal frequencies, transducers, transducer arrays, calibration of arrays, variable depth sonar, acoustic baffles, echo structure studies, sonar displays, surveillance sonars, and acoustic systems for mines and torpedoes; psychoacoustics, including theory of signal detection and binaural and monaural localization; computer technology.

HOLDINGS: Books, journals, reports, patents, films.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Provides information either through consultation or published data, subject to approval of the sponsoring Federal Government agency, on the basis of need-to-know.

Balcones Research Center

Structural Mechanics Research Laboratory

2683 Balcones Research Center
The University of Texas
Route 4, Box 189
Austin, Tex. 78757
Tel: (512) 836-0440

AREAS OF INTEREST: Engineering properties of materials; rates of loading; impact loading; energy dissipators; dynamic behavior.

HOLDINGS: Over 100 reports.

PUBLICATIONS: Theses, reports, papers, etc.

INFORMATION SERVICES: Provides consulting services free or for fee, as negotiated.

Bureau of Economic Geology

2684 The University of Texas
Box X, University Station
Austin, Tex. 78712

Location:

Geology Bldg., 5th Floor
Main Campus
The University of Texas
Austin, Tex.
Tel: (512) 471-1534

AREAS OF INTEREST: Basic geological research; geology applied to resource, engineering, and environmental problems; systematic geologic mapping; compilation of Texas mineral data.

HOLDINGS: About 1,200 books and pamphlets and 35 journal titles in public Reading Room; open-file reports, maps, charts, well logs; well sample and core repository collection; rock, mineral, and fossil collections.

PUBLICATIONS: Major reports issued in the Publication series of The University of Texas; annual report; *Geologic Atlas of Texas*; *Geological Circular* (series); *Geologic Quadrangle Map* with text (series); *Guidebook* (series); *Mineral Resource Circular* (series); *Report of Investigations* (series); miscellaneous maps and charts (without text) and catalogs. A publications list is available.

INFORMATION SERVICES: Answers inquiries through correspondence and conference; makes referrals; provides reference services; permits onsite reference; identifies and evaluates Texas rock and mineral samples.

Center for Research in Water Resources

2685 The University of Texas
Route 4, Box 189
Austin, Tex. 78757
Tel: (512) 836-0440 Ext. 241 or 245

AREAS OF INTEREST: Water resources; waste and water treatment; industrial wastes; solid waste disposal; reservoir and estuary purification; water pollution; water chemistry; aquatic ecology; water quality management.

HOLDINGS: Library.

PUBLICATIONS: *Water Resources Symposia Series Proceedings* (hard cover); quarterly newsletter on research in progress; technical reports on completed studies. Some publications are free to nonprofit organizations.

INFORMATION SERVICES: Answers inquiries; makes referrals to specialists on the University staff; provides consulting services by faculty members for fee.

Computation Center

Program Library

2686 Computation Center
The University of Texas
Austin, Tex. 78712
Tel: (512) 471-7242

AREAS OF INTEREST: Computers; computer sciences; computer programming; numerical analysis.

HOLDINGS: Card decks and writeups of programs for the Center's computer (CDC 6600); computer manufacturers' manuals; tables of mathematical functions; 950 books; 50 journals; 1,000 reports relating to computer sciences.

INFORMATION SERVICES: Provides consulting services to computer users.

Department of Geology

2687 University of Texas
Austin, Tex. 78712
Tel: (512) 471-5172

AREAS OF INTEREST: Geology; petrography; mineralogy; paleontology.

HOLDINGS: 25,000 books; 50 periodical titles.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides limited consulting and literature-searching services; lends materials; permits onsite use of collection.

Engineering Library

2688 The University of Texas
Austin, Tex. 78712
Tel: (512) 471-1610

AREAS OF INTEREST: Aerospace, architectural, chemical, civil, electrical, mechanical, meteorological, and petroleum engineering; engineering mechanics.

HOLDINGS: Books, journals, industrial catalogs, national fire codes, Atomic Energy Commission depository collection, national standards. There are 67,000 volumes in the engineering collection.

INFORMATION SERVICES: Makes interlibrary loans; provides duplication services; permits onsite reference by visiting scholars.

Geology Library

2689 The University of Texas
Austin, Tex. 78712
Tel: (512) 471-1257

AREAS OF INTEREST: Geology; geophysics; geomorphology; glaciology; crystallography; mineralogy; paleontology; paleobotany; petroleum geology; seismology; volcanology; malacology; guidebooks of geological societies; hydrology; economic geology; oceanography; marine ecology; speleology; geochemistry; sedimentation and deposition.

HOLDINGS: 50,000 books; 900 journal titles; 440,000 sample logs and drillers' logs; 250,000 electric logs; 600,000 oil scout cards; 20,000 aerial photos; geologic and topographic maps (repository); special collections on mesozoic paleontology and micropaleontology.

INFORMATION SERVICES: Provides reference services; makes referrals; makes interlibrary loans; permits onsite reference by visiting scholars and others.

J. W. Mallet Chemical Library

2690 Chemistry Bldg. 219
The University of Texas
Austin, Tex. 78712
Tel: (512) 471-1303

AREAS OF INTEREST: Chemistry (all areas, including crystallography); biochemistry; chemical engineering.

HOLDINGS: 11,595 books; 17,345 periodicals (420 current subscriptions).

INFORMATION SERVICES: Provides limited reference services; provides for duplication of journal articles; makes interlibrary loans of books; permits onsite reference.

Physics Library

2691 The University of Texas
Austin, Tex. 78712
Tel: (512) 471-7539

AREAS OF INTEREST: Physics; astronomy.

HOLDINGS: 11,000 books; 11,800 journals; astronomy observation charts.

INFORMATION SERVICES: Provides reference services; makes direct and interlibrary loans; permits onsite reference by visiting scholars.

Tektite Research

2692 P.O. Box X
University Station
Austin, Tex. 78712

Location:

Geology Bldg., 5th Floor
The University of Texas
Austin, Tex.
Tel: (512) 471-1534

AREAS OF INTEREST: Tektites.

HOLDINGS: 75 kg. tektites.

INFORMATION SERVICES: Permits onsite reference upon approval of satisfactory references. A few reprints on some of the research accomplished are available for distribution.

UNIVERSITY OF TEXAS AT DALLAS

Library

2693 University of Texas at Dallas
P.O. Box 30365
Dallas, Tex. 75230

Location:

2400 North Armstrong Parkway
Richardson, Tex.
Tel: (214) 231-3757

AREAS OF INTEREST: Geophysics; atmospheric physics; gravitation; seismology; geochronology; geomagnetism; oceanography; geology; solar physics; cosmic rays; hydromagnetic phenomena; molecular biology; pion radiobiology; relativistic astrophysics; cosmology.

HOLDINGS: 10,000 books (includes 4,000 bound journals); 415 periodical titles; technical reports, microfilm, microfiche.

PUBLICATIONS: *Advance*; annual report.

INFORMATION SERVICES: Answers inquiries; provides reference and literature-searching services; provides duplication services at cost; lends materials. Services are available to serious students.

Facilities include xerographic equipment and a microfilm reader/printer.

UNIVERSITY OF TEXAS AT EL PASO

Schellenger Research Laboratories

2694 University of Texas
El Paso, Tex. 79999
Tel: (915) 542-5784 or 542-5785

AREAS OF INTEREST: Studies and investigation of atmospheric characteristics, properties, and parameters; meteorology and weather phenomena; atmospheric acoustics; development of atmospheric sensors for installation on meteorological balloons and rockets; development of experimental systems to investigate atmospheric phenomena; collection, reduction, and analysis of atmospheric data.

HOLDINGS: Reports, data.

PUBLICATIONS: Technical reports, conference proceedings, standards and specifications, data handbook.

INFORMATION SERVICES: Answers technical inquiries (prior clearance must be obtained from the appropriate Government agency for information resulting from work on Government contracts); provides consulting services. Services are provided on fee basis.

Facilities include an anechoic room, altitude and humidity chambers, vacuum equipment for thin films research, electronic digital and analog computers, microwave system, mobile instrument vans, Rawin sets for tracking balloon-borne meteorological instruments, 2,500-pound force-output shaker system, pistonphone, and refraction chamber with associated shock tube and Schlieren photographic equipment.

UNIVERSITY OF TOLEDO LIBRARY

2695 2801 West Bancroft St.
Toledo, Ohio 43606
Tel: (419) 531-1451

397-718 O-LT - 71 - 41

AREAS OF INTEREST: Science and engineering (general); welding; aeronautics; law; silicates; mineralogy; ceramics; geology; atomic energy.

HOLDINGS: 570,612 volumes; 2,866 periodicals; 85,030 pamphlets, college catalogs, and annual reports; 47,731 maps; 5,130 phonodiscs; 4,727 microfilm reels; 2,001 slides. The Library is a depository for U.S. Atomic Energy Commission reports (26,200 reports, 90,442 microforms), and for maps issued by the U.S. Army Map Service, the U.S. Coast and Geodetic Survey, and the U.S. Geological Survey.

INFORMATION SERVICES: Provides reference services; provides duplication services for fee; makes interlibrary loans; permits onsite reference; lends books on individual basis; places orders for microfilms and photocopies of material in libraries throughout the world.

UNIVERSITY OF TULSA

Information Services Department

2696 University of Tulsa
College of Petroleum Sciences and Engineering
1133 North Lewis Ave.
Tulsa, Okla. 74110
Tel: (918) 939-6351

AREAS OF INTEREST: Geology; geochemistry; geophysics; petroleum exploration; rock drilling; well logging; well completion and servicing; well stimulation; petroleum production (oil and gas); reservoir engineering; petroleum recovery methods; pipelining; marine transportation; storage facilities; supplemental petroleum technology.

HOLDINGS: 2,600 books; 800 journals; 2,600 reports; 3,000 patents.

PUBLICATIONS: *Petroleum Abstracts* (weekly); *Alphabetic Subject Index* (monthly); *Dual Dictionary Coordinate Index* (3 issues a year); *Master Record Computer Tape* (3 issues a year); *Exploration and Production Thesaurus* (annual). Publications are limited to subscribers.

INFORMATION SERVICES: Provides abstracting and indexing of petroleum-technology-oriented literature and patents; provides single-copy duplication services; prepares special bibliographies and provides literature-searching services on assignment.

Sidney Born Technical Library

2697 University of Tulsa
1133 North Lewis Ave.
Tulsa, Okla. 74110
Tel: (918) 939-6351

AREAS OF INTEREST: Petroleum, mechanical, chemical, and aeronautical engineering; geology; mathematics; chemistry; physics.

HOLDINGS: 41,000 books; 5,800 journals; reports, patents, maps, charts. The Library houses most of the material abstracted by Petroleum Abstracts.

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference.

UNIVERSITY OF UTAH

Computer Center

2698 University of Utah
Salt Lake City, Utah 84112
Tel: (801) 322-6802

AREAS OF INTEREST: Computer technology.

HOLDINGS: Computer programs.

PUBLICATIONS: Newsletter.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

Solid Rocket Structural Integrity Information Center

2699 College of Engineering
University of Utah
Salt Lake City, Utah 84112
Tel: (801) 322-6911 or 322-6441

AREAS OF INTEREST: Structural integrity of solid propellant grains, including characterization of mechanical behavior of polymers and solid propellants, analysis of stresses and strains in deformable bodies, fracture mechanics, test techniques, and experimental procedures.

HOLDINGS: 200 books; 700 periodicals; 3,500 reports.

PUBLICATIONS: *Solid Rocket Structural Integrity Abstracts* (quarterly), which includes a survey article of some facet of solid rocket structural integrity, reviews of pertinent technical conferences, calendar of conferences and short courses, and abstracts of reports, papers, and journal articles.

INFORMATION SERVICES: Provides reference services; makes referrals.

Utah Industrial Services Agency

2700 118 Stewart Bldg.
University of Utah
Salt Lake City, Utah 84112
Tel: (801) 322-7941

AREAS OF INTEREST: Scientific, technical, and management subjects of interest to Utah business and industry.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides literature-searching and consulting services; sponsors and conducts seminars, conferences, and workshops for business and industry.

UNIVERSITY OF VERMONT

Agricultural Engineering Department

Extension Service

2701 Agricultural Engineering Department
University of Vermont
Agricultural Engineering Bldg.
Burlington, Vt. 05401
Tel: (802) 864-4511 Ext. 334 or 279

AREAS OF INTEREST: Agricultural engineering.

PUBLICATIONS: Specifications.

INFORMATION SERVICES: Answers inquiries; provides consulting services; provides working drawings for fee.

Professional Development Center for the Office of Civil Defense

2702 Civil Engineering Department
Votey Bldg.
University of Vermont
Burlington, Vt. 05401
Tel: (802) 864-4511 Ext. 611

AREAS OF INTEREST: Fallout shelter analysis.

INFORMATION SERVICES: Provides advisory services free to consulting engineers and architects.

Technical Information Center

2703 Votey Bldg., Room 109
University of Vermont
Burlington, Vt. 05401
Tel: (802) 658-3432 or 864-4511 Ext. 750 or 793

AREAS OF INTEREST: All areas of technology of interest to industry, business, commerce, and government agencies of Vermont.

HOLDINGS: A growing index of sources of technical expertise and information centers in the United States; a small technical library for the Center's internal use.

PUBLICATIONS: Brochure, newsletter.

INFORMATION SERVICES: Answers inquiries; provides reference, literature-searching, and duplication services; makes referrals; assists with the solutions to technical problems. The Center's services are available to any company or individual in Vermont and are provided basically free of charge, but some service fees will be charged under special circumstances and any fees charged by other agencies must be paid for by the inquirer.

Vermont Agricultural Experiment Station

2704 University of Vermont
Burlington, Vt. 05401
Tel: (802) 864-4511 Ext. 264 or 256

AREAS OF INTEREST: General agriculture; related physical, biological, and social sciences; rural life and economics; home economics.

PUBLICATIONS: *Vermont Farm and Home Science* (quarterly); reports, proceedings, research bulletins.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

Vermont Resources Research Center

2705 University of Vermont
Burlington, Vt. 05401
Tel: (802) 864-4511

AREAS OF INTEREST: Water for recreational use; limnology; biology and geology of lakes; measurement of watershed runoff; water economics; regional planning.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

The Lake Study Center, a unit of the Vermont Resources Research Center, specializes in lake research.

UNIVERSITY OF VIRGINIA

Computer-Science Center

2706 University of Virginia
Gilmer Hall
Charlottesville, Va. 22903
Tel: (703) 924-3731

AREAS OF INTEREST: Research in computer programming languages and in computer organizations and multiprogrammed operating systems; ALGOL, BASIC, and most other languages.

HOLDINGS: 1,000 reels of magnetic tape.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides computation, analysis, programming, and consulting services on fee basis.

Facilities include a Burroughs B5500 computer system, HP2000 Time Sharing system, and others.

Department of Aerospace Engineering and Engineering Physics

2707 School of Engineering and Applied Science
University of Virginia
Thornton Hall
Charlottesville, Va. 22901
Tel: (703) 295-2166 Ext. 3292

AREAS OF INTEREST: Rarefied gas dynamics, including high energy gas-surface interactions, free-jet expansion, free molecular flow, nonequilibrium effects in transition flows, hypersonic molecular beam systems with molecular velocity selection and analysis, low density wind tunnels with electromagnetic balances, and high energy molecular beam systems with ultrasensitive torsion balance; low-speed aerodynamics, including aerodynamics of high-lift configurations, STOL aircraft performance, slipstream and free-stream interactions, turbulent shear flows, low-speed wind tunnels, hot wire anemometry instrumentation, and laser techniques for measuring flow velocities; supersonic and hypersonic flows, including supersonic wind tunnels, high-temperature gas dynamics, and interferometer techniques; systems engineering, with emphasis on transportation systems; atomic and molecular collision phenomena, including ionization, scattering cross sections, recombination of ions and atoms, and ion accelerators; dynamic stability of aircraft, spacecraft, and rockets, including free suspension of wind-tunnel models with electromagnetic systems, and Magnus effects; high rotational speed techniques, including biological centrifuges, gas centrifuges, gas dynamics and shock waves in gas centrifuges, rotor dynamics, and magnetic bearings; aeroelasticity; aerospace structures; superconductivity; gravitational constant.

HOLDINGS: 200 books; 50 periodicals; 800 technical reports; 25 films; 100 computer programs; 100 theses; 200 bibliographies; 200 slides; 100 data notebooks; 400 reprints; 500 graphs and tables.

PUBLICATIONS: Technical reports, brochures, course catalogs, course notes.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services for fee by arrangement with faculty members or through membership in a University organization; permits onsite reference; lends reports; offers seminars and short courses.

Leander McCormick Observatory

2708 Box 3818, University Station
Charlottesville, Va. 22903
Tel: (703) 924-3473

AREAS OF INTEREST: Astrometry; spectroscopy; spectral classification; image intensifiers; infrared spectra; mass-ratio; stellar parallax; proper motion; statistical investigations; photometry; cosmology and cosmogony.

HOLDINGS: 11,000 books; 86,000 parallax plates; films, photos, data.

PUBLICATIONS: *Publications of the Leander McCormick Observatory* (irregular); technical notes, etc.

INFORMATION SERVICES: Permits onsite reference; makes publications available; makes interlibrary loans.

Facilities include a 26-inch refractor, 10-inch astrograph, 32-inch reflector, 5-channel hydrogen line radio telescope, 40-inch astrometric reflector, cassegrain spectrograph, dual channel photometer, 128 channel pulse counting photometer, digitized measuring equipment, spectral line comparators, microdensitometer, optics laboratory (including 16-inch collimator), and a photocathode calibration laboratory.

Research Laboratories for the Engineering Sciences

Publications Group

2709 RLES, Thornton Hall
University of Virginia
Charlottesville, Va. 22901
Tel: (703) 924-3203

AREAS OF INTEREST: Physical sciences; engineering.

PUBLICATIONS: *Technical Contract Reports.*

INFORMATION SERVICES: Answers inquiries; provides duplication services for fee.

University of Virginia Library

Science/Technology Information Center

2710 University of Virginia Library
Charlottesville, Va. 22901
Tel: (703) 924-3553

The Science/Technology Information Center represents a loose confederation consisting of the following science branch libraries at the University of Virginia: Astronomy Library, Biology/Psychology Library, Chemistry Library, Engineering Library, Environmental Sciences Library, Mathematics Library, and Physics Library.

AREAS OF INTEREST: Science and technology, including astronomy, biology, psychology, chemistry, engineering, environmental sciences, mathematics, and physics.

HOLDINGS: 101,541 books; 181,000 hard copy technical reports; 355,000 technical reports on microfiche.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services to students, faculty, and Virginia residents; provides bibliographic and duplication services for fee.

UNIVERSITY OF WASHINGTON

Applied Physics Laboratory Library

2711 University of Washington
1013 Northeast 40th St.
Seattle, Wash. 98105
Tel: (206) 543-1300

AREAS OF INTEREST: Physics; oceanography; underwater acoustics; antisubmarine warfare.

HOLDINGS: 2,100 books; 150 journals; 14,000 reports.

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Books and journals are available for onsite reference or through interlibrary loan. Technical reports and security information are made available to Government agencies and contractors through the Chief, Bureau of Naval Weapons (RUTO-3), U.S. Navy.

Department of Nuclear Engineering

Nuclear Reactor Laboratories

2712 University of Washington
Seattle, Wash. 98105
Tel: (206) 543-4170

AREAS OF INTEREST: Neutron physics; reactor dynamics; radiation shielding; devices for neutron spectrum measurements; cold neutron physics; bionuclear applications.

HOLDINGS: Reports, data.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Performs complete activation analysis services; provides irradiation services for fee.

Department of Oceanography

2713 College of Arts and Sciences
University of Washington
Seattle, Wash. 98105
Tel: (206) 543-5060

AREAS OF INTEREST: Biological, geological, chemical, and physical oceanography; marine geophysics and geochemistry; fluid dynamics.

HOLDINGS: Data on water properties and circulation for the Puget Sound system, Columbia River effluent area, North Pacific Ocean, Arctic Ocean, and adjacent seas; a cross-index for over 12,000 conventional oceanographic stations occupied in Puget Sound, Strait of Juan de Fuca, and the San Juan Island region from 1932-1969; grab samples, box cores, and gravity cores (less than 2m) from the Washington continental shelf; grab samples, box cores, gravity cores (less than 2m), piston cores (less than 6m), shallow and deep seismic profiles from the Chukchi-Bering Sea continental shelf; gravity cores (less than 2m), piston cores (less than 6m), and deep seismic profiles from Cascadia Basin; gravity cores (less than 2m) and piston cores (6-15m) from the North Pacific; gravity cores (less than 2m) from the Gulf of Alaska; seismic reflection, seismic refraction, and acoustic absorption data from the inland waters and continental shelf of Washington; bottom current and sediment transport data from Puget Sound and the Columbia River; heat-flow measurements and high-resolution seismic profiling data from Juan de Fuca Ridge off the Washington coast; chemical and physical data on oxygen-deficient and sulfide-bearing marine environments

(N.E. Pacific, Cariaco Trench, Black Sea); data on nutrient-uptake for marine primary production; physical and biochemical data on upwelling ecosystems off Peru and in the Mediterranean Sea; large collections of nano-phytoplankton and net-zooplankton from various parts of Puget Sound (1963-1970) and from Vancouver Island to northern California to 300 km offshore (1961-present); other plankton collections from Puget Sound, Columbia River effluent area, the North Pacific, and Arctic Ocean; large collections of benthic invertebrates from Puget Sound and off the Washington coast (1963-1968); approximately 500 midwater trawl samples of euphausiids and pelagic shrimp from the N.E. Pacific and Arctic Ocean; over 200 bacteria-free cultures of phytoplankton species and benthic microalgae; collections of benthic crustaceans, polychaetes, molluscs, and echinoderms; a collection of eastern Pacific barnacles. The Fisheries-Oceanography Library contains 28,000 volumes, 76,000 pamphlets (including technical reports, translations, reprints, maps, and charts), and 2,000 periodical titles.

PUBLICATIONS: Technical reports, data reports, articles in journals, occasional special reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference of samples.

Laboratory of Radiation Ecology

2714 College of Fisheries
University of Washington
Seattle, Wash. 98105
Tel: (206) 543-4257

AREAS OF INTEREST: Biological distribution and effects of radioactivity in the natural environment, particularly in the aquatic environment; radiobiological studies of aquatic organisms at atolls and in the surrounding ocean; nuclear reactor waste disposal in water; radioecology; effects of low-level irradiation on Chinook salmon; radiation chemistry; alpha-emitting radionuclides in marine organisms. Geographic areas covered include the central and western Pacific Ocean, Alaska, Puget Sound, and the Columbia River.

HOLDINGS: 300 books; 2,500 technical reports; numerous maps and colored slides; two movies on radiobiological research at the Pacific nuclear test sites; periodicals, bibliographies.

PUBLICATIONS: U.S. Atomic Energy Commission research and development reports; technical reports in scientific journals; papers published in proceedings of scientific symposia and conferences.

INFORMATION SERVICES: The senior staff answers technical and general inquiries by mail or telephone, gives lectures on request to educational groups, and provides consulting services.

Facilities include a radiation-counting laboratory, an analytical radiochemistry laboratory, and a mobile laboratory for field programs.

Office of Engineering Research

2715 University of Washington
Seattle, Wash. 98105
Tel: (206) 543-0745

AREAS OF INTEREST: Engineering, including aeronautics and astronautics, chemical, civil, electrical, mechanical, nuclear, ceramic, metallurgical, and mining; bioengineering; oceanic engineering.

HOLDINGS: Graduate theses (or abstracts thereof) by engineering research assistants covering works done within the last five years; journals, principally a complete file of the periodicals published by the Office; bulletins (a nearly complete series of former publications); a few reports, for the years 1929-1959.

PUBLICATIONS: *The Trend in Engineering* (quarterly); brochures, other nonperiodical publications.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting, bibliographic, drafting, and editorial services to local groups; permits onsite use of literature collection.

Pacific Northwest Bibliographic Center

2716 University of Washington Library
Seattle, Wash. 98105
Tel: (206) 543-1878

The Center is a cooperative agency owned and operated by the Pacific Northwest Library Association. It is supported by voluntary subscriptions from participating libraries.

AREAS OF INTEREST: Library resources in the Pacific Northwest.

HOLDINGS: A union catalog of over 4 million cards listing alphabetically by author the books and other printed materials and some manuscripts owned by selected libraries in the States of Washington, Oregon, Idaho, and Montana, and the Province of British Columbia. Also listed are the contents of the Library of Congress in Washington, D.C., and the John Crerar Library in Chicago. The University of Washington Library's catalogs, indexes, and reference works are also available to the Center's staff for the purpose of identifying and locating books and supplying bibliographical, order, and reference information.

PUBLICATIONS: *Resources of Pacific Northwest Libraries* (1943); annual report, manual, brochure.

INFORMATION SERVICES: Furnishes locations for interlibrary loan requests and forwards these requests to a holding library. Service is ordinarily restricted to member libraries in the region, but cooperative arrangements are maintained with the Library of Congress and certain other institutions outside the region. The Center directs those in search of materials on specific subjects to the collections best able to serve them. It also assists librarians and library users in identifying authors, titles, and editions, and in all matters of bibliographical research.

University of Washington Libraries

2717 Seattle, Wash. 98105
Tel: (206) 543-1760

AREAS OF INTEREST: Science and technology, including astronomy, atmospheric sciences, chemistry, engineering, physics, mathematics, fisheries, oceanography, forest resources, medicine, dentistry, nursing, pharmacy, zoology, geology, botany, and biology.

HOLDINGS: 1,690,000 volumes of monographs and serials; numerous Government publications (Federal, State, international, foreign); over 352,000 research reports; 37,000 reels of microfilm; 548,000 microfiches, microprints, and microcards.

PUBLICATIONS: *Library Leaflet* series (irregular); *Library Guide* series (irregular); *Washington Library Letter* (biweekly); acquisition lists.

INFORMATION SERVICES: Provides reference services, primarily to students and faculty; makes interlibrary loans; provides duplication services for fee; permits onsite reference.

UNIVERSITY OF WISCONSIN

Chemistry Department Library

2718 University of Wisconsin
Madison, Wis. 53706
Tel: (608) 262-2942

AREAS OF INTEREST: Chemistry, including theoretical, analytical, organic, inorganic, and physical.

HOLDINGS: 14,000 volumes.

PUBLICATIONS: Bibliographies.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides reference services; permits onsite use of collection.

Engineering Experiment Station

2719 College of Engineering
University of Wisconsin
Madison, Wis. 53706
Tel: (608) 263-1610

AREAS OF INTEREST: Chemical, civil, electrical, industrial, mechanical, minerals and metallurgy, and nuclear engineering; engineering mechanics; biomedical engineering; digital and hybrid computer technology; energy conversion; environmental engineering; instrumentation research and metrology; internal combustion engines; materials science; ocean engineering; plasmas; production engineering; rheology; solid waste disposal; statistics and model building; water chemistry and water resources engineering.

HOLDINGS: 1,400 reprints; reports.

PUBLICATIONS: Technical report series, annual report.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

Engineering Library

2720 Mechanical Engineering Bldg.
University of Wisconsin
Madison, Wis. 53706
Tel: (608) 262-3493

AREAS OF INTEREST: Engineering and physical sciences.

HOLDINGS: The Library's major collections consist of 64,000 books, 2,250 serial/periodicals currently received, indexes/abstracts, AEC unclassified documents (microcards, microfiche, and paper copy), and NASA unclassified documents (microfiche and paper copy).

INFORMATION SERVICES: Lends materials; provides photocopying services.

Geography and Geology Library

2721 250 Science Hall
University of Wisconsin
Madison, Wis. 53706
Tel: (608) 262-1706

AREAS OF INTEREST: Geography; geology; meteorology.

HOLDINGS: 30,000 books; 1,050 periodical titles.

INFORMATION SERVICES: Permits onsite reference; provides loans and duplication services through the Reference Department, Memorial Library, University of Wisconsin.

Geophysical and Polar Research Center

2722 University of Wisconsin
6118 University Ave.
Middleton, Wis. 53562
Tel: (608) 262-1921

AREAS OF INTEREST: Geology; gravity; seismology; magnetism; glaciology; geodesy; geophysical research, with emphasis in the Arctic and Antarctic regions.

HOLDINGS: 1,000 books; 500 journals; 80 series reports. The Center has one of the largest polar libraries in the country.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Lends documents; permits onsite reference by qualified visitors.

The Center conducts the U.S. Antarctic programs and research in the Great Lakes, and investigates crustal structure in Wisconsin.

Institute for Environmental Studies

2723 1339 Meteorology
University of Wisconsin
Madison, Wis. 53706
Tel: (608) 262-2860

AREAS OF INTEREST: Man at the interface with his environment; problems of population, pollution, and ecology; construction of quantitative models of man's effect on the environment and conversely; interdisciplinary effort across the physical, biological, social, and humanities divisions of the University; undergraduate and graduate courses and curricula and research programs.

HOLDINGS: Technical reports of current interest; journals, abstract literature, bibliographies, seminar reports, theses, and other published material.

PUBLICATIONS: *Occasional Papers*, containing papers by faculty or invited seminar speakers; *Research Reports*, describing research programs and results; *Newsletter*, listing current library acquisitions; annual report; bibliographies of periodical reports on environmental quality. Single copies of publications are distributed free.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference.

Limnology Laboratory

2724 University of Wisconsin
Madison, Wis. 53706
Tel: (608) 262-3304

AREAS OF INTEREST: Hydrobiology; fish migration, orientation, and physiology; zooplankton; lake biology, physics, and chemistry.

HOLDINGS: 1,000 books; 50 periodical titles; 1,000 reports; slides, maps, charts.

PUBLICATIONS: Reports (most of which are restricted to the sponsoring agency), reprints, bibliographies. A list of reprints is available.

INFORMATION SERVICES: Answers technical inquiries; provides consulting, reference, and limited bibliographic services; lends materials; permits onsite use of collection. Services are available primarily to the scientific community and usually only when these services cannot be obtained from other sources.

Mathematics Research Center, U.S. Army

2725 University of Wisconsin
Madison, Wis. 53706
Tel: (608) 262-3196

The Center, which was established and is maintained by the U.S. Army, is operated by, and exists as a unit in, the University of Wisconsin.

AREAS OF INTEREST: Applied mathematics; statistics; computer sciences; operations research; numerical analysis; probability; design of experiments.

PUBLICATIONS: Technical reports (over 100 a year), proceedings of seminars, brochure. A listing of report titles is available.

INFORMATION SERVICES: Answers inquiries, provides consulting services, and conducts seminars and workshops, primarily for U.S. Army personnel. The Center's technical reports are available from the Defense Documentation Center, the Clearinghouse for Federal Scientific and Technical Information, and on request from libraries or individuals working in applied mathematics fields.

Nuclear Engineering Department

2726 College of Engineering
University of Wisconsin
Madison, Wis. 53706
Tel: (608) 263-1647

AREAS OF INTEREST: Nuclear reactor safety, fuels management, and heat transfer; development of fast-breeder reactors; radiation damage to materials; fusion-feasibility studies and plasma physics; design and development of particle accelerators; superconductivity.

HOLDINGS: The Department's collection is maintained by the College of Engineering Library.

INFORMATION SERVICES: Provides consulting services; provides testing and reactor-operator training services using nuclear reactor.

Physics-Mathematics Library

2727 Van Vleck Hall
University of Wisconsin
Madison, Wis. 53706
Tel: (608) 262-3596

AREAS OF INTEREST: Physics; mathematics.

HOLDINGS: 21,000 books; 14,000 bound volumes of periodicals.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference. Loans and duplication services must be arranged through the Interlibrary Loan Department, Memorial Library, University of Wisconsin.

Solar Energy Laboratory

2728 University of Wisconsin
Mechanical Engineering Bldg.
Madison, Wis. 53706
Tel: (608) 262-3696

AREAS OF INTEREST: Solar energy (measurements, applications).

HOLDINGS: Technical reports, periodicals, reprints.

PUBLICATIONS: Technical reports, reprints.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides limited bibliographic services. Consulting services are available by arrangement with staff members.

University-Industry Research Program

Information Services Division

2729 University-Industry Research Program
University of Wisconsin
1324 West Dayton St.
Madison, Wis. 53706
Tel: (608) 262-5913

AREAS OF INTEREST: Science, technology, and engineering as applied to industrial problems; food processing and research; oceanography; water resources; instrumentation.

PUBLICATIONS: *UIR Research Newsletter* (quarterly); *Industrial Research in Wisconsin* (directory); directories of research faculty.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides duplication and brief literature-searching services for fee; makes interlibrary loans.

Water Chemistry Program

2730 Water Chemistry Laboratory
University of Wisconsin
Madison, Wis. 53706
Tel: (608) 262-2470

AREAS OF INTEREST: All aspects of water chemistry; chemical hydrology; chemical limnology; chemical oceanography; water supply and pollution control; analytical methods; pesticides; carcinogens; fish kills.

HOLDINGS: 10,000 abstracts of papers on water chemistry.

PUBLICATIONS: Abstracts.

INFORMATION SERVICES: Answers inquiries from scientists; permits onsite reference to abstracts.

Water Resources Center

2731 113 Hydraulics and Sanitary Laboratory
University of Wisconsin
Madison, Wis. 53706
Tel: (608) 262-3577

AREAS OF INTEREST: Hydrogeology; limnology; pesticides and detergents in water; sewage and waste treatment; water chemistry; water quality; water resources information systems, legislation, management, manpower, planning, publications, and research; water reuse; evaporation; evapotranspiration; fluid mechanics; hydraulics; hydrodynamics; irrigation; pollution; soil-water relationships; industrial and municipal wastes; waste water; water microbiology; water supply engineering; water treatment; eutrophication of lakes and streams.

HOLDINGS: Technical reports, journals, abstract literature, bibliographies, seminar reports, theses; collection of documents on eutrophication.

PUBLICATIONS: *Occasional Papers* by faculty or seminar speakers; *Research Reports*; *Eutrophication Abstracts*; *Reference Room Acquisitions*; annual report. Single copies of limited supply publications are distributed free.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite use of literature collection; conducts a special program in the area of eutrophication.

Wisconsin Agricultural Experiment Station

2732 136 Agricultural Hall
University of Wisconsin
Madison, Wis. 53706
Tel: (608) 262-1254

AREAS OF INTEREST: Agricultural economics, education, engineering, and journalism; agronomy; bacteriology; biochemistry; dairy science; entomology; food science and industries; forestry; genetics; horticulture; landscape architecture; meat and animal science; plant pathology; poultry science; rural sociology; soils; veterinary science; wildlife ecology.

PUBLICATIONS: Technical reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

Wisconsin State Technical Services Program

2733 University Extension
432 North Lake St.
Madison, Wis. 53706
Tel: (608) 262-2155

AREAS OF INTEREST: Manufacturing processes; new products; other items of "new technology" from the physical and engineering sciences.

PUBLICATIONS: Newsletter (bimonthly); *Guide to Technical Information Resources* (1966); *Special Publications* (irregular).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and literature-searching services in the University of Wisconsin Library and other libraries. Special conferences for industrial management are handled on a fee basis.

Woodman Astronomical Library

2734 Wasburn Observatory
University of Wisconsin
Madison, Wis. 53706
Tel: (608) 262-3071

AREAS OF INTEREST: Astronomy; space astronomy; astrophysics; mathematics; physics.

HOLDINGS: 7,500 books; 1,300 slides; teaching models, telescopes, maps, charts, journals, reports, reviews, abstracts, preprints, reprints, pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference.

UNIVERSITY OF WYOMING

Natural Resources Research Institute

2735 College of Engineering
University of Wyoming
P.O. Box 3038, University Station
Laramie, Wyo. 82070
Tel: (307) 745-3726

AREAS OF INTEREST: Civil, chemical, electrical, and mechanical engineering; mineral resources, especially coal; water resources, including University-wide activities of the Wyoming Water Resources Research Institute; atmospheric resources, including weather modification, aerodesy, and aeronautics; space resources, including observational satellites and aerospace sciences; resource instrumentation, including automatic hydrological, meteorological, and satellite electronic observing and recording equipment and special-purpose data reading, processing, and recording equipment.

PUBLICATIONS: Information circulars, reports.

INFORMATION SERVICES: Answers inquiries; performs testing and assay services at cost for companies and residents of the State; provides consulting services on a contract basis to industry and governmental agencies.

University Library

2736 University of Wyoming
P.O. Box 3334, University Station
Laramie, Wyo. 82070
Tel: (307) 766-3279

AREAS OF INTEREST: Botany; chemistry; zoology; adult education; pharmacy; law; geology; petroleum history; wool.

HOLDINGS: 425,000 volumes; 800 wool sample jars; reports, patents. The Library is a depository for U.S. Government documents.

PUBLICATIONS: *University of Wyoming Publications* (annual).

INFORMATION SERVICES: Provides reference and duplication services; permits onsite reference.

Water Resources Research Institute

2737 University of Wyoming
P.O. Box 3038, University Station
Laramie, Wyo. 82070
Tel: (307) 766-2143

AREAS OF INTEREST: Water resources research in Wyoming, including water resources planning, water law, hydrology, water economics and econometrics, irrigation, agricultural uses of water, limnology, ecosystems, urban water use, weather modification, and sanitary and environmental health engineering.

HOLDINGS: The Institute's library has some special documents pertaining to Wyoming and hydrology, plus streamflow data for Wyoming in ADP form. Other literature on water and water research is kept in the University Library.

PUBLICATIONS: *Land and Water Law Review*; research reports, annual report.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides literature-searching services, except for extensive commercial requests; permits onsite reference; disseminates reports.

Wyoming Agricultural Experiment Station

2738 University of Wyoming
P.O. Box 3354, University Station
Laramie, Wyo. 82070
Tel: (307) 766-4133

AREAS OF INTEREST: General agriculture; agricultural biochemistry and physiology; nutrition; animal science; veterinary science; dairy and beef cattle; sheep and wool production; poultry; swine; animal breeding; plant science; weed control; entomology; plant pathology; horticulture; forestry; range management; soils; agricultural economics and marketing; home economics; farm and range management; agricultural engineering.

PUBLICATIONS: News releases (monthly and weekly); regional publications, research reports, monographs, bulletins, proceedings.

INFORMATION SERVICES: Answers inquiries; makes referrals; distributes publications; assists in planning and holding meetings and conferences.

Wyoming Technical Assistance Program (WYTAP)

2739 Division of Business and Economic Research
University of Wyoming
P.O. Box 3275, University Station
Laramie, Wyo. 82070
Tel: (307) 766-5141

AREAS OF INTEREST: Scientific and technical information of interest to Wyoming business and industry.

HOLDINGS: 500 books; 50 periodical titles; 1,000 reports.

PUBLICATIONS: Directories, reports.

INFORMATION SERVICES: Answers inquiries; provides advisory, consulting, and reference services. Readily available information is supplied free; publications and other information are provided at cost.

UNIVERSITY PATENTS, INC.

2740 3450 John Hancock Center
Chicago, Ill. 60611
Tel: (312) 787-5225

AREAS OF INTEREST: Development and marketing of patents relating to the following fields, among many others: materials and processes, including fiber metallurgy, colored metal fibers, steel alloys, ductile cast iron, recovery of cast iron borings, flame spray ceramic coatings, gas metal plating, citric acid, ammonia synthesis, plastics and artificial fibers, and nonwoven cloth fabrics; food products, including supplements, freeze drying, sugar substitutes, and protein concentrates; medical products, including biotics, serums, toxin viruses, vaccines, tooth decay inhibition, dental water pic, and blood pressure meter; educational systems and teaching aids; water purification and desalination; sewage treatment; air pollution control; fly ash utilization; dust precipitators; electronics, including video recording, antennas, magnetic alloys, gas plasma devices, display panels, and high vacuum gages; mechanics, including machine tools, conveyors, dry power magnetic clutch, tools, gas and liquid nozzles, and spraying; cobalt 60; magnetic zipper; illumination and optical devices; water blanket fire hose nozzle; combustion improvement additive; and automatic outside window washing device.

HOLDINGS: Over 1,500 patents; reports, graphs, tables, project records, posters and other display materials, slides, photos, motion pictures, models, devices, catalogs, data.

PUBLICATIONS: Circular describing University Patents, Inc. objectives and procedures.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services for fee; provides "custom technology searches" for industrial clients to locate viable new products, processes, materials, etc. on a worldwide basis; permits onsite inspection and invention review by prior arrangement.

UNIVERSITY RESEARCH INSTITUTE OF CONNECTICUT, INC.

2741 1211 Barnes Rd.
Wallingford, Conn. 06492
Tel: (203) 269-1362

AREAS OF INTEREST: Enhancement of the economic growth of Connecticut by more effective use of Connecticut technical manpower resources; research related to Connecticut technical manpower needs.

HOLDINGS: An inventory of Connecticut research resources, including technical research and development facilities and personnel.

PUBLICATIONS: Directory of Connecticut research organizations; brochures; reports (*Connecticut Research Compatibility*, *Connecticut Vocational-Technical School Graduate Follow-Up of Classes of 1958 and 1963*, *Planning for Connecticut Child Welfare Needs*, etc.).

INFORMATION SERVICES: Provides consulting services; makes referrals. Services are primarily for Connecticut firms and organizations, but are also available to others who would seek to use Connecticut's research and technical resources.

UPPER COLORADO RIVER COMMISSION

2742 355 South 4th East St.
Salt Lake City, Utah 84111
Tel: (801) 364-5629

AREAS OF INTEREST: Administration of the Upper Colorado River Basin Compact, including the apportionment of Colorado River system water among Utah, Colorado, New Mexico, Wyoming, and Arizona; development, use, and regulation of Colorado River water, especially for irrigation, power, flood control, municipalities, industry, fish and wildlife, and recreation.

HOLDINGS: Reference collection of books, maps, and charts; Federal reports prepared by the U.S. Bureau of Reclamation, U.S. Department of Agriculture, and other agencies; water supply forecasts prepared by the U.S. Weather Bureau, the U.S. Soil Conservation Service, and the Bureau of Reclamation; legal literature pertaining to the Colorado River; Congressional records and reports; and records of Commission activities.

PUBLICATIONS: Annual report (available on request).

INFORMATION SERVICES: Answers technical inquiries; disseminates pamphlets; lends films on the Colorado River prepared by the Commission and the Bureau of Reclamation; permits onsite use of collection.

UPPER MISSISSIPPI WATERWAY ASSOCIATION

2743 1420 Midwest Plaza Bldg.
Minneapolis, Minn. 55402
Tel: (612) 333-4361

AREAS OF INTEREST: Transportation of bulk commodities by barge and tow boat via the Mississippi River.

INFORMATION SERVICES: Answers inquiries; makes referrals.

UPPER SABINE SOIL AND WATER CONSERVATION DISTRICT

see Louisiana State Soil and Conservation Service

URBAN AMERICA, INC.

2744 1717 Massachusetts Ave. NW.
Washington, D.C. 20036
Tel: (202) 265-2224

AREAS OF INTEREST: National urbanization policy; urban planning and design; urban renewal; land use; architecture; historic sites; social planning housing for low-income families; State's role in solving urban problems; State and community development corporation.

PUBLICATIONS: *City* (bimonthly magazine); *Chronicle* (monthly supplement to *City*); reports, research findings.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; holds conferences.

URETHANE INSTITUTE

2745 c/o Worden & Co., Inc.
2 West 45th St.
New York, N.Y. 10036
Tel: (212) 986-1386

AREAS OF INTEREST: Urethane foams and applications in bedding and furniture industries.

PUBLICATIONS: Periodical articles, press releases for trade and consumer press.

INFORMATION SERVICES: Answers inquiries; disseminates background information.

USC, INC.

2746 University Science Center
3113-3125 Forbes Ave.
Pittsburgh, Pa. 15213
Tel: (412) 683-4220 or 683-4221

USC, Inc., The University Science Center is a university-affiliated research and consulting agency which uses primarily university faculty and advanced graduate students as professional researchers and consultants and serves as an instrument for "transfer of technology" from the universities to business and Government.

AREAS OF INTEREST: All disciplines, including: computer and information sciences; ecology; economics; education; engineering; management science; medicine; operations research; pharmacology; physical sciences; public administration; social sciences; transportation; urban planning; and nuclear quality assurance controls.

HOLDINGS: USC, Inc. primarily uses the university, school, and departmental libraries of the University of Pittsburgh, Carnegie-Mellon University, and Duquesne University.

PUBLICATIONS: Technical reports, surveys, studies, brochures.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, research, and literature-searching services; conducts management seminars. Services are provided on fixed contract or time and material basis.

Facilities include an IBM 360/30 computer, laboratories of regional universities, a printing shop, and a Xerox 3600I copier.

USERS OF AUTOMATIC INFORMATION DISPLAY EQUIPMENT

2747 Stromberg-Datagraphix, Inc.
UAIDE Library
P.O. Box 2449
San Diego, Calif. 92112

Location:

6150 Fairmount Extension
San Diego, Calif.
Tel: (714) 283-6531

AREAS OF INTEREST: Microfilm computer recorders and printers; computer printouts (microfilm, hard copy).

HOLDINGS: 80 systems and applications programs; 200 tapes; motion pictures.

PUBLICATIONS: *UAIDE Annual Proceedings*, *Computer Animation Report*.

INFORMATION SERVICES: Answers inquiries; provides consulting services; lends motion pictures, computer programs, and technical reports.

USM CORP.

Research Division Library

2748 USM Corp.
Balch St.
Beverly, Mass. 01915
Tel: (617) 922-0160 Ext. 593 or 2185

AREAS OF INTEREST: Shoe machinery; shoes; physics; chemistry; management; mechanical and electrical engineering; plastics; fasteners.

HOLDINGS: 9,000 books; 400 journals; 200 reports; patents, films, photos.

PUBLICATIONS: Monthly announcement journal.

INFORMATION SERVICES: Permits onsite reference by request.

USS AGRI-CHEMICALS

Atlanta Research Center

2749 USS Agri-Chemicals
685 DeKalb Industrial Way
Decatur, Ga. 30033
Tel: (404) 636-9431

AREAS OF INTEREST: Fertilizer technology and inorganic chemistry.

HOLDINGS: Small collection of books and periodicals.

INFORMATION SERVICES: Answers inquiries; provides reference services; makes referrals.

UTAH AGRICULTURAL EXPERIMENT STATION

see Utah State University

UTAH DEPARTMENT OF DEVELOPMENT SERVICES

Utah Division of Aeronautics

2750 135 North 23d West
Salt Lake City, Utah 84116
Tel: (801) 328-2066

AREAS OF INTEREST: Aeronautics (Utah), including airport improvement and maintenance, aviation education, aviation safety programs, State-owned navigational aids, and search and rescue; economic development; tourism.

HOLDINGS: Maps, including airport master plans; charts, aviation-oriented films and filmstrips; one aircraft.

PUBLICATIONS: *Utah Aviation News* (bimonthly); *Utah Aeronautical Charts* (biennial); *Airport Directory* with revision service.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides duplication services; issues special bulletins; provides speakers for various civic, aviation, and educational groups; lends films and filmstrips free of charge.

UTAH DEPARTMENT OF NATURAL RESOURCES

Division of Water Rights

2751 Utah Department of Natural Resources
442 Capitol Bldg.
Salt Lake City, Utah 84101
Tel: (801) 328-5671

AREAS OF INTEREST: Administration of water resources in Utah; water rights; approval of plans and specifications for dams.

HOLDINGS: 12,000 water well logs; annual municipal water use reports; 100,000 records of water rights; plans of dams, technical reports, annual reports of water commissioners; modest reference library maintained in cooperation with Utah Division of Water Resources.

PUBLICATIONS: *Technical Publications*, containing reports of specific water resource investigations; *Basic Data Reports*, containing selected data on streamflow, ground-water levels, water well logs, and water quality; *Information Bulletins*, dealing with a variety of water data, generally of limited local interest. A publications list is available.

INFORMATION SERVICES: Answers all technical inquiries not requiring extensive research; provides copies of records for fee; permits onsite use of collection.

UTAH GEOLOGICAL AND MINERALOGICAL SURVEY

2752 103 Utah Geological Survey Bldg.
University of Utah
Salt Lake City, Utah 84112
Tel: (801) 322-6831

AREAS OF INTEREST: Mineral resources, including mining districts, alteration areas, statistical studies, and mineral extraction from brines of Great Salt Lake; energy resources, including mapping and research on coal, oil and natural gas, oil impregnated sandstones, oil shale, gilsonite, and nuclear and geothermal energy sources; water resources, including surface and underground water supplies, springs and thermal waters, and extensive study of Great Salt Lake and other saline playas and basins; county studies; engineering and environmental geology, including geologic hazards, pollution control, earthquake, and fault studies.

HOLDINGS: 500 analyses of oil field waters; 10,000 analyses of Great Salt Lake brines displaying spatial, annual, and seasonal variation; sets of samples, cores, and mechanical logs of 2,750 oil and gas tests, mining core holes, etc. in Utah and 1,000 in adjoining Nevada, Idaho, Colorado, and Arizona.

PUBLICATIONS: 32 special studies; 11 water-resources bulletins; 83 other bulletins; local and regional geologic guidebooks by private groups; reprints, circulars, miscellaneous publications. A publications list is available.

INFORMATION SERVICES: Answers inquiries.

UTAH STATE UNIVERSITY

Center for Water Resources Research

2753 Utah State University
Logan, Utah 84321
Tel: (801) 752-4100 Ext. 596

AREAS OF INTEREST: Water resources in Utah; aquatic biology; hydrology; water supply; water quality; sanitary engineering; effects of sewage disposal on living things; sociological and legal aspects of water resources.

HOLDINGS: All major holdings are in the University library.

PUBLICATIONS: Annual report.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and literature-searching services for fee.

Engineering Experiment Station

2754 Utah State University
Logan, Utah 84321
Tel: (801) 752-4100 Ext. 219 or 541

AREAS OF INTEREST: Engineering research, particularly in radiation detection, infrared luminescence, ionospheric radio propagation, solid state devices, concrete quality, and strength of buried conduits.

HOLDINGS: Books, journals, reports, films, data.

PUBLICATIONS: Reports, proceedings, standards and specifications, bibliography, directory.

INFORMATION SERVICES: Provides reference and consulting services.

Utah Agricultural Experiment Station

2755 Utah State University
Logan, Utah 84321
Tel: (801) 752-4100

AREAS OF INTEREST: General agriculture; natural resources; conservation; sociological and economic problems of people.

PUBLICATIONS: *Utah Science* (quarterly); technical reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite visits.

Utah Water Research Laboratory

2756 Utah State University
Logan, Utah 84321
Tel: (801) 752-4100 Ext. 545

AREAS OF INTEREST: Water management; water resources planning and development; hydraulics and hydraulic structures; fluid mechanics; surface and ground-water hydrology; hydrologic and river basin simulation and modeling; water measurement; atmospheric water resources; instrumentation and hydrologic telemetry; data evaluation and processing; water quality management; water use and requirements in municipal, industrial, recreational, and agricultural applications; water rights; water economics.

HOLDINGS: 112 project reports; 80 reprints; 73 theses (21 Ph.D., 52 M.S.).

PUBLICATIONS: Project reports, reprints of staff journal articles, theses, technical bulletins and reports, brochures, papers, scholarly treatises. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides bibliographic and consulting services for fee; provides limited chemical and biological water quality analyses and hydraulic testing and calibration.

Facilities include a chemical laboratory, bacteriological laboratory, instrumentation laboratory, analog model and simulation laboratory, hybrid computer, 8x530-foot towing tank and flume, special flumes, weighing tanks, volumetric tanks, and supporting facilities, including printing room, drafting room, machine shop, project rooms, conference rooms, lecture room, dark room, library, and offices.

UTAH WATER POLLUTION COMMITTEE

2757 44 Medical Dr.
Salt Lake City, Utah 84113
Tel: (801) 328-6121

AREAS OF INTEREST: Water pollution control; domestic and industrial wastes; quality of surface and ground water; pollution by biological, chemical, and radiological agents.

HOLDINGS: Reports, data.

PUBLICATIONS: State regulations.

INFORMATION SERVICES: Answers inquiries.

VANDERBILT UNIVERSITY

School of Engineering

2758 Vanderbilt University
P.O. Box 1826, Station B
Nashville, Tenn. 37203

Location:

24th Ave. South
Nashville, Tenn.
Tel: (615) 322-2762

AREAS OF INTEREST: Civil, electrical, chemical, environmental, and water resources engineering; materials science; engineering mechanics; mathematics systems and information science; biomedical engineering.

HOLDINGS: Books (including texts), standards, specifications, periodicals.

PUBLICATIONS: Reports, papers, conference proceedings.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services for fee; permits onsite use of literature collection; conducts short courses, conferences, and seminars.

Facilities include Sigma 2 and Sigma 7 computers, analog computers, gas chromographs, spectrophotometers, testing equipment, laboratory equipment, electronic devices, electron microscopes, field-ion microscopes, and hydrodynamics devices.

VARIAN ASSOCIATES

Eastern Tube Division

2759 800 Rahway Ave.
Union, N.J. 07083
Tel: (201) 687-0250

AREAS OF INTEREST: Electronic engineering, including vacuum tubes and devices (especially amplifiers and magnetrons), electronic countermeasures, circuits, network theory, microwave technology, waveguides, and radar systems; mathematics, including differential equations; physics, including electromagnetic theory; materials, including nonferrous metals, electrodeposition, and vacuum deposition; machining and welding; occupational safety, including metals toxicity, microwave radiation, and machine shop safety.

HOLDINGS: 1,100 books; 150 periodical titles; 27 file drawers of technical reports; 3 drawers of trade information on metals and coatings.

INFORMATION SERVICES: Makes interlibrary loans; permits limited onsite use of literature collection. Photocopy facilities are available.

EIMAC Division

2760 301 Industrial Way
San Carlos, Calif. 94070
Tel: (415) 591-1221

AREAS OF INTEREST: Electron power (vacuum) tubes, including grid-type power tubes, power klystrons, and traveling wave tubes; rectifiers; thyratrons; vacuum switches; tube sockets; microwave circuit components and modules; industrial microwave heating equipment; laser (gas); xenon arc lamps; light sources.

HOLDINGS: 6,000 books; 2,500 periodicals; 8,000 reports.

PUBLICATIONS: *Library Bulletin* (monthly accessions list); bibliographies.

INFORMATION SERVICES: Answers inquiries on courtesy basis; provides reference and consulting services; makes interlibrary loans.

LEL Division

2761 75 Akron St.
Copiague, Long Island, N.Y. 11726
Tel: (516) 264-2200

AREAS OF INTEREST: Engineering and manufacturing of radio frequency, intermediate frequency, and receiver subsystems, including IF amplifiers, log amplifiers, main amplifiers, post amplifiers, preamplifiers, RF amplifiers, antenna amplifiers, converters, octave amplifiers, telemetry amplifiers, attenuators, combiners, converters, couplers, discriminators, dividers, power dividers, binary power dividers, hybrids, image suppression equipment, LEL-Line thin film components, LEL-Line strip components, laboratory receivers, miniature components, mixers, monopulse comparators, multicouplers, telemetry converters, and voltage controlled attenuators; integrated circuits, including amplifiers, mixers, hybrids, couplers, oscillators, and any subsystem that might include these components.

HOLDINGS: 14,000 periodicals; 500 reports; 1,500 standards and specifications; 200 graphs and tables; books, reviews, data.

INFORMATION SERVICES: Answers inquiries; provides consulting services for fee; provides environmental testing services; permits onsite use of collection.

Technical Library

2762 Varian Associates
611 Hansen Way
Palo Alto, Calif. 94304
Tel: (415) 326-4000

AREAS OF INTEREST: Electronics; mathematics; chemistry; physics and nuclear physics; metallurgy; materials; management.

HOLDINGS: 18,000 books; 500 current periodical subscriptions; 20,000 reports; films, photos, maps, charts.

PUBLICATIONS: *Technical Library Bulletin* (weekly); bibliographies, index, translations.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, literature-searching, and translating services; makes interlibrary loans; permits onsite use of collection by qualified visitors. Brief inquiries are answered free; a fee is charged for extended research and consultation. Evidence of security clearance and need-to-know is required for access to classified information.

VERMONT AERONAUTICS BOARD

2763 State House
Montpelier, Vt. 05602
Tel: (802) 223-2311 Ext. 408

AREAS OF INTEREST: Acquisition, construction, development, maintenance, and operation of airports in Vermont; air search and rescue operations; cropdusting and spraying; flight safety; radio navigational aids; sport parachute jumping; air travel statistics.

HOLDINGS: 150 books; 500 reports.

PUBLICATIONS: *Vermont Airport Directory*; news bulletin to Vermont pilots.

INFORMATION SERVICES: Answers brief inquiries. A State agency, the Board primarily serves Vermont.

VERMONT AGRICULTURAL EXPERIMENT STATION

see University of Vermont

VERMONT DEPARTMENT OF HIGHWAYS

2764 State Administration Bldg.
Montpelier, Vt. 05602
Tel: (802) 223-2311

AREAS OF INTEREST: Highway engineering, including planning, economics, photogrammetry, mapping, research, hydraulics, accident studies, road and bridge design, construction, maintenance, snow removal, computer use for highway engineering and management, and regional planning.

HOLDINGS: 100 microfilm rolls and 1,500 sets of record plans covering design of roadways, bridges, etc., 1930 to present; design and location manuals; aerial photographs of entire State plus supplemental coverage at different scales of some areas; photogrammetric coverage of many areas; route logs of all State highways; large library of current and recent pertinent publications by B.P.R., AASHO, and other agencies.

PUBLICATIONS: Accident studies; urban area studies; Highway Touring Map (annual); miscellaneous Vermont maps; biennial report to legislature; sufficiency rating report; highway needs report; estimated cost analysis for proposed interstate construction; rural and urban location reports; geological reports; tourist survey; truck weight study; railroad crossing hazard program; construction cost data and indexes; TOPICS report.

INFORMATION SERVICES: Answers inquiries; provides maps.

Facilities include a Balplex 760 Triangulator, materials testing laboratory, survey equipment, IBM 1130 computer, duplication facilities, printing facilities, map drawing facilities, and a photo laboratory.

VERMONT DEPARTMENT OF WATER RESOURCES

2765 State Office Bldg.
Montpelier, Vt. 05602
Tel: (802) 223-2311 Ext. 283

AREAS OF INTEREST: Water resources in the State, including water quality and quantity, sources and effects of pollution, sanitary engineering studies for pollution abatement, and projects dealing with the future water quality of river basins, treatment facilities, and municipal water works.

HOLDINGS: 200 technical reports; 500 maps and charts; 5,000 slides; 5,000 data compilations; motion pictures. Water quality data collected over the past 14 years are on file.

INFORMATION SERVICES: Answers technical inquiries; makes referrals; provides consulting services; performs data searches on request.

Laboratory staff conducts chemical, bacteriological, and physical tests of water and waste waters.

VERMONT GEOLOGICAL SURVEY

2766 Geology Bldg.
University of Vermont
Burlington, Vt. 05401
Tel: (802) 864-4511 Ext. 226

AREAS OF INTEREST: Geology of Vermont; geological mapping.

HOLDINGS: Collection of books, reports, groundwater maps, drill cores and cuttings, minerals, fossils, and rocks.

PUBLICATIONS: Reports (a list of titles is available).

INFORMATION SERVICES: Answers technical inquiries; provides advice on ground-water supplies; prepares literature citations in response to specific requests. Services are free to State residents.

VERMONT MAPLE INDUSTRY COUNCIL

2767 Forestry Department
University of Vermont
Burlington, Vt. 05401
Tel: (802) 864-4511 Ext. 397 or 398

AREAS OF INTEREST: Maple syrup and sugar production and marketing, including promotion, education, and research.

PUBLICATIONS: Annual bulletin. The Council also prepares a condensed report published in the Vermont Department of Agriculture's biennial report.

INFORMATION SERVICES: Answers inquiries; provides consulting services; provides educational and promotional information either directly or through the University of Vermont Extension Service; makes referrals.

VERMONT RESOURCES RESEARCH CENTER

see University of Vermont

VERMONT STATE NATURAL RESOURCES CONSERVATION COUNCIL

2768 Morrill Hall
University of Vermont
Burlington, Vt. 05401
Tel: (802) 864-4511 Ext. 275

AREAS OF INTEREST: Organization and management of natural resource conservation districts in Vermont.

INFORMATION SERVICES: Answers inquiries; provides consulting services; makes referrals.

VIBRATION DAMAGE SPECIALISTS

2769 3750 Wilmington Ave.
Louisville, Ky. 40207
Tel: (502) 897-1516

AREAS OF INTEREST: Effects of vibrations of all kinds, including explosions, sonic booms, and machinery vibrations, upon structures; explosive engineering; seismology; geophysics; geology; gas engineering; structural engineering; mechanical engineering; architecture; law.

HOLDINGS: 10,000 technical reports; 1,700 books; 50 periodical titles; 70 reprints of articles; 120 standards and specifications; seismographs, seismometers, sound level meters, gas detection instruments, chemical testing instruments.

PUBLICATIONS: Articles in professional and scientific journals; books, reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; conducts investigations; prepares analyses and evaluations. An hourly fee is charged for services.

VICKERS, INC. DIVISION OF SPERRY RAND CORP.

2770 P.O. Box 302
Troy, Mich. 48084

Location:
Maple and Crooks Rds.
Troy, Mich.
Tel: (313) 576-3000

AREAS OF INTEREST: Fluid dynamics, including the use of liquids and gases under high temperatures and high pressures for purposes of converting, transmitting, and controlling power; hydromechanical devices; hot gas mechanical devices; hydraulics (power control); fluid mechanics; hydraulic pumps; hydraulic rotary and hot gas rotary motors; fluidics; valves (hot gas power control and hydraulic power control).

HOLDINGS: Library with large but fluid (new issues replacing old) collection.

PUBLICATIONS: Product descriptive literature (generally available on request); selective reports, specifications.

INFORMATION SERVICES: Answers inquiries; provides consulting services (nominal consultations with qualified active technicians are free); permits limited access to library collection. Services are generally available to anyone, depending on workload and contract priorities, but normally cannot be provided to students.

VILLANOVA UNIVERSITY

Division of Research and Development

2771 Villanova University
Villanova, Pa. 19085

Tel: (215) 527-2100

AREAS OF INTEREST: Engineering; chemistry; biology; physics; psychology.

HOLDINGS: The Division uses the collections of the University Library.

PUBLICATIONS: Brochure.

INFORMATION SERVICES: Answers brief inquiries; provides consulting services on fee basis.

VIRGIN ISLANDS DEPARTMENT OF HEALTH

Division of Environmental Health

2772 Virgin Islands Department of Health
Box 1442
Charlotte Amalie, St. Thomas Virgin Islands
00801
Tel: (809) 774-6880 Ext. 282

AREAS OF INTEREST: Environmental health, including water supply, water pollution, air pollution, solid waste, radiological health, food protection, general sanitation, and vector control.

INFORMATION SERVICES: Answers inquiries; provides free consulting services; makes referrals; disseminates health information; performs bacteriological and chemical analyses of water and sewage and identifies insects for a fee.

VIRGIN ISLANDS PUBLIC WORKS DEPARTMENT

2773 Government of the Virgin Islands of the
United States
Charlotte Amalie, St. Thomas Virgin Islands
00801

AREAS OF INTEREST: Public works in the Virgin Islands, including roads, sanitation, construction, and public utilities.

PUBLICATIONS: Annual report.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

VIRGINIA DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

Division of Mineral Resources

2774 Virginia Department of Conservation and
Economic Development
P.O. Box 3667
Charlottesville, Va. 22903

Location:
University of Virginia
McCormick Rd.
Charlottesville, Va.
Tel: (703) 293-5121

AREAS OF INTEREST: Geology and mineral resources in Virginia.

HOLDINGS: Books, periodicals, reports, and geologic material published by the Federal and State Government, research organizations, and other countries; published technical theses and dissertations on geology in Virginia; geologic logs; drillers' logs; electric logs; maps; several thousand water-well records; repository collections of rock specimens and sample well cuttings.

PUBLICATIONS: *Virginia Minerals* (quarterly); bulletins, mineral resources reports, reports of investigations, geologic and topographic maps. A price list is available.

INFORMATION SERVICES: Answers technical inquiries; provides limited duplication services at cost; provides field services for the public, industry, and Government (X-ray and microscopic examination of rock samples, geophysical logging, and electrical resistivity surveys); permits onsite reference to open-file collections.

Division of Water Resources

2775 Virginia Department of Conservation and
Economic Development
911 East Broad St., 7th Floor
Richmond, Va. 23219
Tel: (703) 770-2111

AREAS OF INTEREST: Basic water resources investigations; planning for the development of water resources.

PUBLICATIONS: *Surface Water Supply Bulletins*; *Water Resources Planning Bulletins*; reports, pamphlets, an irregular periodical.

INFORMATION SERVICES: Answers inquiries; provides consulting services.

VIRGINIA DEPARTMENT OF HEALTH

Bureau of Sanitary Engineering

2776 Division of Engineering
Virginia Department of Health
1314 East Grace St.
Richmond, Va. 32319
Tel: (703) 644-4111 Ext. 2377 or 2378

AREAS OF INTEREST: Sanitary engineering; water supply and sewage disposal; plans and specifications for water and sewage treatment facilities; purification of water for household use.

INFORMATION SERVICES: Answers inquiries.

VIRGINIA HIGHWAY SAFETY DIVISION

2777 P.O. Box 1299
Richmond, Va. 23210
Tel: (703) 272-1431

AREAS OF INTEREST: Highway and traffic safety.

HOLDINGS: 1,000 books; 500 periodical titles; 700 reports; 600 films; Government documents, maps, statistical data dating back to 1932, a newspaper file dating from 1946.

PUBLICATIONS: *Virginia Traffic Safety News* (monthly); *Virginia Crash Facts* (annual); occasional special studies.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference, consulting, duplication, and literature-searching services; provides field service and speakers for meetings; permits onsite use of collection; lends materials.

VIRGINIA INSTITUTE FOR SCIENTIFIC RESEARCH

Library

2778 Virginia Institute for Scientific Research
6300 River Rd.
Richmond, Va. 23229
Tel: (703) 282-9581

AREAS OF INTEREST: General physics, chemistry, and biology, including organic, inorganic, and biochemistry; solid state physics and chemistry; surface chemistry and corrosion; single crystals and thin films of metals; Mossbauer effect spectroscopy; biochemistry of proteins and tobacco; crystallography; geology; environmental sciences.

HOLDINGS: 5,000 books; 390 periodicals; reprints, reports, data, films, photos, X-ray powder diffraction, data card file (inorganic), general reference works.

PUBLICATIONS: Research reports, library bulletin (irregular).

INFORMATION SERVICES: Answers inquiries; provides reference, bibliographic, and duplication services for fee; makes interlibrary loans; permits onsite reference.

Facilities include an ultracentrifuge, Mossbauer effect and conventional optical spectrometers, thin film, and evaporation equipment.

VIRGINIA INSTITUTE OF MARINE SCIENCE

2779 Gloucester Point, Va. 23062
Tel: (703) 642-2111

AREAS OF INTEREST: All phases of seafood and commercial and sport fishing industries; conservation, development, and replenishment of fisheries and other marine resources; problems pertaining to other segments of the maritime economy; marine pollution; hydrographic and biological studies of the Chesapeake Bay, its tributaries, and all the tidal waters of Virginia and the contiguous waters of the Atlantic Ocean; marine sciences; waters, bottoms, shorelines, tidal wetlands, beaches, and all phenomena and problems related to marine waters.

HOLDINGS: 8,000 books; 350 periodicals; abstracts, indexes, preprints, reprints, publication lists, brochures, reviews, standards and specifications, reports, graphs, tables, punched cards, project records, posters and other display materials, maps, charts, microcards, microfilm, data, samples, oceanographic-biological instruments, specimens of plankton, algae, and micro and macro parasites.

PUBLICATIONS: *Collected Reprints*; *Data Reports*; *Special Scientific Reports*; *Special Reports in Applied Science and Oceanic Engineering*; *Annual Report*; *Marine Resources Advisory Series*; *Educational Series*.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting and duplication services; permits onsite reference; identifies animals and plants; conducts summer courses and extension courses at advanced undergraduate and graduate levels; conducts field trips and lectures for visiting college, high school, and grammar school groups; conducts lecture programs for civic, service, and youth groups on special topics in marine science; conducts closed-circuit television programs for Chesapeake and Norfolk school systems at elementary school level.

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

Carol M. Newman Library

Science Division

2780 Carol M. Newman Library
Virginia Polytechnic Institute and State University
Blacksburg, Va. 24061
Tel: (703) 552-6354

AREAS OF INTEREST: Engineering; agriculture; science.

HOLDINGS: 300,000 books and bound periodicals; 10,762 reels of microfilm; 115,717 microcards; 456,652 microfiche; 1,175 microprints.

INFORMATION SERVICES: Provides reference services; provides duplication services for fee; makes interlibrary loans; permits onsite reference by request.

Department of Statistics

2781 Virginia Polytechnic Institute and State University
Blacksburg, Va. 24061
Tel: (703) 552-6566

AREAS OF INTEREST: Probability; inference; design of experiments; empirical Bayes; multivariate analysis; response surfaces; stochastic processes; statistical genetics; nonparametric statistics; time series analysis; analysis of variance; sequential analysis; biological assay; econometrics; sample survey; analysis of categorical data; queueing theory.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides limited bibliographic services; provides consulting services for fee; prepares analyses and evaluations.

Extension Division

2782 Virginia Polytechnic Institute and State University
107 Hutcheson Hall
Blacksburg, Va. 24061
Tel: (703) 552-6705

AREAS OF INTEREST: Agriculture; home economics; resource and community development; 4-H program; natural resources; management; engineering; urban and regional development; forestry and recreation development; business extension; adult education.

HOLDINGS: Small collection of books and periodicals.

PUBLICATIONS: Pamphlets, circulars, bulletins.

INFORMATION SERVICES: Answers inquiries; provides consulting services; conducts seminars, conferences, workshops, and adult education programs throughout the State (including the Adult Education Center on campus).

Water Resources Research Center

2783 Virginia Polytechnic Institute and State University
Blacksburg, Va. 24061
Tel: (703) 552-6701

AREAS OF INTEREST: Water resources; flood control; flood damage abatement; Virginia water law; water supply; aquatic biology and ecology; hydrology; sewage treatment; water economics; water resources legislation.

PUBLICATIONS: Bulletins describing the Center's investigations and seminars. Single copies are distributed free while the supply lasts.

INFORMATION SERVICES: Makes referrals.

VIRGINIA SOIL AND WATER CONSERVATION COMMISSION

2784 P.O. Box 2148
Richmond, Va. 23216

Location:
James Madison Bldg., Room 1206
109 Governor St.
Richmond, Va.
Tel: (703) 770-2064

AREAS OF INTEREST: Water and soil conservation, including prevention of flood-water and sediment damage; water development; water use.

HOLDINGS: 295 reports; 200 photos; 500 newspapers and newsletters; 1,000 pamphlets, booklets, leaflets, and brochures.

PUBLICATIONS: Reports, newsletters, pamphlets.

INFORMATION SERVICES: Answers limited inquiries; makes referrals; provides consulting services.

VIRGINIA STATE CORPORATION COMMISSION

Division of Aeronautics

2785 Virginia State Corporation Commission
909 Blanton Bldg.
Richmond, Va. 23219
Tel: (703) 707-3687 or 707-3688

AREAS OF INTEREST: Administration of Virginia's aviation laws; licensing aircraft, airmen, airports, and drop zones; promotion of aviation in the public interest; aerospace education.

HOLDINGS: Aviation films, cloud charts, aviation emergency plans, accident reports, navigation computers and plotters.

PUBLICATIONS: *Virginia Aviation News* (quarterly); *Airport Directory* (biennial); *Fly to Virginia* (biennial); *Aeronautical Chart* (biennial); *Aviation Law of Virginia* (biennial).

INFORMATION SERVICES: Provides information on aviation facilities and services; provides State aid to airports.

Facilities include State-owned, low-frequency homing beacons for instrument approaches to Virginia airports.

VIRGINIA STATE TECHNICAL SERVICES

Administrative Office

2786 Virginia State Technical Services
Extension Division
Virginia Polytechnic Institute and State University
Blacksburg, Va. 24061
Tel: (703) 552-6226

AREAS OF INTEREST: Physical, biological, engineering, and social sciences of interest to Virginia business and industry.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and literature-searching services, using the libraries of the Virginia Polytechnic Institute and other Virginia universities and colleges cooperating in the State Technical Services program. Services are largely free; document reproduction, abstracting services, etc., will be provided on a cost basis.

VIRGINIA WATER CONTROL BOARD

2787 P.O. Box 11143
Richmond, Va. 23230

Location:

4010 West Broad St.
Richmond, Va.
Tel: (703) 770-2241

AREAS OF INTEREST: Control of water pollution and water quality in the rivers and streams of Virginia.

HOLDINGS: Small reference collection; reports on studies and investigations relating to the quality of State waters and to sewage and industrial waste loads, and the character of these, discharged to State waters.

PUBLICATIONS: *State Water Control Law*; *Water Quality Standards*; *Information to be Submitted in Applying for Certificates to Discharge Industrial Wastes*; *Municipal Waste (Sewage) Treatment Facility Grants*; *Water Pollution Control (Virginia State Water Control Board)*; Virginia Water Quality (*periodic bulletin*); Film Loan Service*; pamphlets, reports, maps, charts and graphs. Publications are available free on request.*

INFORMATION SERVICES: Answers inquiries on water pollution in Virginia; permits onsite reference.

VITRAMON, INC.

2788 P.O. Box 544
Bridgeport, Conn. 06601

Location:

Route 25
Monroe, Conn.
Tel: (203) 268-6261

AREAS OF INTEREST: Capacitors, including ceramic and porcelain dielectric, subminiature chip, high-reliability monolithic dielectric, and single-film substrates; ultrasensitive switching modules; high temperature lubrication systems; colloidal graphite lubricants.

HOLDINGS: 600 M.I.T. notebooks; 90,000 pages of raw data; 40,000 test capacitors; 600 photos; 800

slides; 6,000 project records; 80 graphs and tables; 700 books; 40 periodical titles; 100 standards and specifications; 1,000 reprints; 3,500 pamphlets; 300 press releases; 300 clippings; 10 abstracts.

PUBLICATIONS: *Vitramon News* (bimonthly); series of 10 technical bulletins; catalog containing 24 data sheets; quarterly financial reports; condensed catalog, annual report, sales flyers, press releases.

INFORMATION SERVICES: Answers inquiries; provides consulting services; permits onsite reference by request.

VITRO LABORATORIES

Information Management Department

2789 Vitro Laboratories
Silver Spring Laboratory
14000 Georgia Ave.
Silver Spring, Md. 20910
Tel: (301) 942-7200 Ext. 4856

AREAS OF INTEREST: Polaris missile and guided missile documentation.

HOLDINGS: 90,000 documents of raw data; 150 data compilations; 30,200 volumes of periodicals; 416,000 microcards; 8,000 105mm slides; 110 rolls of film; 100 magnetic tapes; 1,900 standards and specifications.

INFORMATION SERVICES: Makes referrals; provides technical documentation systems advice and consulting services on fee basis; provides ballistic missile and guided missile documentation only on certification of need-to-know.

Library

2790 Vitro Laboratories
Silver Spring Laboratory
14000 Georgia Ave.
Silver Spring, Md. 20910
Tel: (301) 942-7200

AREAS OF INTEREST: All topics pertinent to missiles and undersea warfare, including electronics, acoustics, aerodynamics, space flight, radiation hazards, computers, oceanography, naval architecture, etc.

HOLDINGS: 9,100 books; 54,800 volumes of technical reports; 1,500 volumes of periodicals; 280 periodical titles; 300 maps and charts; 100 rolls of film; abstracts and indexes.

INFORMATION SERVICES: Makes interlibrary loans of unclassified materials; permits onsite use of collection by those with necessary security clearance.

VULCANA CORP.

2791 1051 East Main St.
Waynesboro, Pa. 17268
Tel: (717) 762-7101

Vulcana Corp. is a subsidiary of Straube Manufacturing Co.

AREAS OF INTEREST: Engineering, including aircraft, aerospace, mechanical, electrical, hydraulic, stress analysis, aerodynamics, tool design, and automation; development of prototype, moderate production, including drafting machines, drafting boards, educational aids, and security devices and locks.

HOLDINGS: 1,500 technical books; 500 standards and specifications; 200 reports; files of engineering information and technical data.

INFORMATION SERVICES: Answers inquiries; provides consulting services for fee; permits onsite use of literature collection.

Facilities include 10,000 square feet of engineering and manufacturing space and a complete machine shop.

THE W2ZI HISTORICAL WIRELESS MUSEUM

2792 c/o Edward G. Raser, Owner and Curator
19 Blackwood Dr.
Trenton, N.J. 08628
Tel: (609) 882-6645

AREAS OF INTEREST: Early wireless and radio historical material.

HOLDINGS: Over 500 items of instruments and apparatus used from 1899 period, when Marconi first came to America, to about 1925; 400 books on the early art of wireless telegraphy and radio telephony from the United States, Germany, France, Russia, Yugoslavia, and other countries; biographies of famous pioneers and inventors from 1900 to 1930; 300 photographs of early ship and coastal stations; biography clippings and some 500 letters from the early wireless pioneers telling of their careers and background; 66 bound volumes of early wireless and radio magazines (from 1908 to 1935); 20 magnetic tapes of deceased, famous pioneers of the art; 200 color slides showing instruments used in the wireless art back to the 1899 era and early wireless coastal and high power stations.

THE W2ZI HISTORICAL WIRELESS MUSEUM

INFORMATION SERVICES: Answers brief inquiries, provided a self-addressed stamped envelope is enclosed; provides reference, consulting, and literature-searching services; permits onsite reference by appointment.

WABASH VALLEY ASSOCIATION, INC.

2793 Skiles Bldg.
Mt. Carmel, Ill. 62863
Tel: (618) 262-5149

AREAS OF INTEREST: Water and soil resources in Wabash River Basin; flood control; water supply; pollution abatement; erosion control; better land use; long range planning; recreational facility development; navigation.

HOLDINGS: 1,000 books; 50 periodicals; 1,000 reports; 250 maps; 5 films; news clippings, photos.

PUBLICATIONS: *Wabash Valley News* (bimonthly); brochures.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides duplication services. Services are free unless extensive time or materials are required.

WALLOPS STATION LIBRARY

see National Aeronautics and Space Administration. Office of Space Science and Applications

WARNER AND SWASEY OBSERVATORY

see Case Western Reserve University

S. D. WARREN CO.

Research Laboratory Library

2794 S. D. Warren Co.
Raymond St.
Cumberland Mills, Maine 04092
Tel: (207) 854-2511

AREAS OF INTEREST: Pulp and papermaking; paper coating, converting, and testing; lithography; electrophotographic reproduction.

HOLDINGS: 3,700 books; 100 periodical subscriptions; patents.

INFORMATION SERVICES: Permits onsite reference as space permits; lends materials at discretion of librarian.

WASHINGTON AGRICULTURAL EXPERIMENT STATION

see Washington State University

WASHINGTON ASSOCIATES, INC.

2795 5850 Leesburg Pike
Falls Church, Va. 22041
Tel: (703) 820-0902

AREAS OF INTEREST: Industry; manufacturing; marketing; Government research and development requirements; defense and aerospace programs; surveys; Federal budget analysis; management and long-range planning.

HOLDINGS: Technical reports, periodicals, newsletters, reprints, clippings, data.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting services and information on Government research and development requirements, including names of individuals to contact, for fee; permits onsite use of collection.

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

Office of Community Services

2796 Washington Metropolitan Area Transit
Authority
950 L'Enfant Plaza South SW.
Washington, D.C. 20024
Tel: (202) 484-2631

AREAS OF INTEREST: Transportation, rail rapid transit lines and related facilities, and subway lines, all specifically for Washington, D.C., and metropolitan area.

HOLDINGS: Small specialized library.

PUBLICATIONS: Reports (an annotated list of reports is available).

INFORMATION SERVICES: Answers inquiries; makes referrals; permits onsite reference.

WASHINGTON SERVICE BUREAU, INC.

2797 1616 H St. NW.
Washington, D.C. 20006
Tel: (202) 628-9335

AREAS OF INTEREST: Federal Government documents and information sources, including those in the technical and scientific fields.

INFORMATION SERVICES: Locates, retrieves, and furnishes to clients, on a fee basis, Federal documents and publications.

WASHINGTON STATE DEPARTMENT OF COMMERCE AND ECONOMIC DEVELOPMENT

Office of Nuclear Energy Development

2798 Washington State Department of Commerce
and Economic Development
General Administration Bldg.
Olympia, Wash. 98502
Tel: (206) 753-5627

AREAS OF INTEREST: Nuclear energy; development of nuclear industry.

HOLDINGS: 500 books; 200 technical reports; 150 periodicals; 1,200 newsletters; 100 pamphlets; 2,000 clippings; reviews, abstracts, news releases.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides consulting and bibliographic services; permits onsite use of collection.

Technical Specifications and Standards Library and Procurement Center

2799 Washington State Department of Commerce
and Economic Development
State Commerce Bldg.
312 First Ave. North
Seattle, Wash. 98109
Tel: (206) 682-3792

AREAS OF INTEREST: Military and Federal specifications and standards; ASA, AMS, and ASTM standards; vendors' catalogs.

HOLDINGS: 80,000 standards and specifications; Department of Defense index; fact sheets, handbooks, manuals, microfilm library.

INFORMATION SERVICES: Makes referrals; lends materials; permits onsite use of collection.

WASHINGTON STATE DEPARTMENT OF FISHERIES LIBRARY

2800 General Administration Bldg., Room 115
Capitol Grounds
Olympia, Wash. 98501
Tel: (206) 753-6583

AREAS OF INTEREST: Fisheries technology, including research, gear, hatcheries, farming, resources, statistics, management, laws and regulations, shellfish research, fishways and fish ladders, conservation, pollution, marine-commercial and sport fishing, stream clearance and maintenance, planting and tagging, and salmon fishing.

HOLDINGS: 3,500 books; 25 journals; 5,000 reports; 3 films; 3,000 preprints and reprints; 2,500 punched cards; maps, charts, standards and specifications, reviews, abstracts, indexes, newsletters, tapes, pamphlets, brochures, press releases, clippings.

PUBLICATIONS: Annual report, research papers and bulletins, technical reports, tapes, films, photos, slides, maps, posters, standards and specifications, state-of-the-art reviews, newsletters, reprints, pamphlets, press releases. A pulications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, bibliographic, and duplication services; makes interlibrary loans; permits onsite reference.

WASHINGTON STATE DEPARTMENT OF HEALTH

2801 Public Health Bldg.
Olympia, Wash. 98501
Tel: (206) 753-5900

AREAS OF INTEREST: Environmental health; sanitary engineering; radiation control; dental health, including fluoridation of all public water supplies; speech and hearing programs; other aspects of public health.

HOLDINGS: Data on all aspects of public health in the State; 500 photos; 500,000 punched cards; standards and specifications, newsletters, publication lists, press releases, brochures, pamphlets.

PUBLICATIONS: *Washington's Health* (newsletter, 4 issues a year).

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite reference.

WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

Division of Mines and Geology

2802 Washington State Department of Natural
Resources
P.O. Box 168
Olympia, Wash. 98501
Tel: (206) 753-6183

AREAS OF INTEREST: Geology and mineral resources of Washington State; petroleum and natural gas production; coal; metallic and nonmetallic mining; mining and milling statistics.

HOLDINGS: Cuttings and cores from 250 oil test wells; 4,500 microfossil slides; 6,500 rock and mineral samples; 1,800 thin sections of rock samples; 13,500 books; 150 periodical titles; 80 bibliographies; full sets of topographic maps of Washington and numerous other maps; nearly complete sets of U.S. Geological Survey and Bureau of Mines reports; U.S. Atomic Energy Commission reports; publications from other Federal agencies and Canada; State and foreign geological surveys; unpublished reports, newsletters, reprints, pamphlets, press releases, theses, data.

PUBLICATIONS: A list of Bulletins, Geologic Maps, Reports of Investigations, Information Circulars, administrative reports, and reprints is available from the Division.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference, consulting, bibliographic, literature-searching, and mineral identification services; permits onsite reference; lends samples and motion pictures.

WASHINGTON STATE DEPARTMENT OF WATER RESOURCES

Division of Planning and Development

2803 Washington State Department of Water
Resources
335 General Administration Bldg.
Olympia, Wash. 98501
Tel: (206) 753-6178 or 753-6189

AREAS OF INTEREST: Water resource development and management; water conservation; stream gaging; ground-water hydrology; snow surveys; lakes; artesian wells; hydraulic engineering; flood control; artificial rainmaking, including cloud seeding.

HOLDINGS: Water rights data, drill reports, well logs, geological and water survey reports, *Water-Supply Papers* on the State prepared by the U.S. Geological Survey, books.

PUBLICATIONS: *Lakes of Eastern Washington*; *Lakes of Western Washington*; *Ground Water Reports*; *Water Supply Bulletins*; *Flood Plain Inundation Reports*.

INFORMATION SERVICES: Answers inquiries; provides consulting and reproduction services; distributes publications, some free and some on cost basis.

WASHINGTON STATE LIBRARY

2804 Washington State Capitol
Olympia, Wash. 98501
Tel: (206) 753-5592

AREAS OF INTEREST: Public health; highway engineering; pollution control; forestry; information storage and retrieval; medicine.

HOLDINGS: 208,914 volumes; 334,568 Federal documents; 97,143 Washington State documents; 98,451 other State documents; 2,045 periodical titles; 1,321 films; 6,375 recordings; microfilm.

INFORMATION SERVICES: Answers inquiries; provides literature-searching and duplication services; permits onsite reference.

WASHINGTON STATE SOIL AND WATER CONSERVATION COMMITTEE

2805 335 General Administration Bldg.
Olympia, Wash. 98501
Tel: (206) 753-6185

AREAS OF INTEREST: Administration of State laws concerning soil and water conservation; watershed protection; flood prevention and control; irrigation; drainage.

PUBLICATIONS: Biennial report, brochures, booklets.

INFORMATION SERVICES: Provides advisory services; makes referrals.

WASHINGTON STATE UNIVERSITY

College of Engineering

Albrook Hydraulic Laboratory

2806 College of Engineering
Washington State University
Pullman, Wash. 99163
Tel: (509) 335-4546

AREAS OF INTEREST: Hydraulics; fluid mechanics; hydromechanics; hydrology; dams; water supply; watershed precipitation; runoff; estuaries; sedimentation; slurry pipelines; floating breakwaters; energy dissipation; floods; mountain streams; water pollution (thermal) mechanics.

HOLDINGS: Books, periodicals, reports, abstracts, indexes, newsletters, maps, charts, graphs, tables, reprints, publication lists, bibliographies, pamphlets, films, photos, slides, models, data.

PUBLICATIONS: Reports, journal reprints of staff articles.

INFORMATION SERVICES: Answers brief inquiries; provides consulting services for fee; permits onsite reference by request.

Division of Research

2807 College of Engineering
Washington State University
Pullman, Wash. 98100
Tel: (509) 335-5591

AREAS OF INTEREST: Air pollution; applied mechanics; architecture; chemical engineering; electrical engineering; electronics; radiation; heat transfer; geohydrology; highways; hydraulics; spectroscopy; wood technology; sanitary engineering; vibration analysis and control; mechanical engineering; materials chemistry; metals; radioisotopes and radiation; carbon dating.

HOLDINGS: Reports, standards and specifications, samples, data.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides research services on contract basis; conducts extensive research under State appropriations.

Research facilities include a million-watt nuclear reactor and high intensity cobalt 60 source.

Library

2808 College of Engineering
Washington State University
Pullman, Wash. 99164
Tel: (509) 335-3564

AREAS OF INTEREST: Science; technology; engineering; industrial services.

HOLDINGS: 5,000 books; 250 journal titles; reports.

PUBLICATIONS: Reports, bulletins, proceedings, abstract journal, news journal.

INFORMATION SERVICES: Provides reference, consulting, and duplication services; makes interlibrary loans; permits onsite reference.

Technical Extension Service

2809 College of Engineering
Washington State University
Pullman, Wash. 99163
Tel: (509) 335-4677

AREAS OF INTEREST: Air pollution; applied mechanics; heat transfer; chemistry; spectroscopy; chemical, electrical, and sanitary engineering; electronics; geohydrology; highway research; hydraulics; metallurgy; plastics; radioisotopes; powerline vibration; wood technology.

HOLDINGS: Periodicals, abstracts, reprints, publication lists, pamphlets.

PUBLICATIONS: *Wheat Abstracts* (bimonthly); *Quest* (4 issues a year); brochures, research and annual reports. A publications list is available.

INFORMATION SERVICES: Answers inquiries; makes referrals; mails single copies of publications free on request.

Wood Technology Section

2810 College of Engineering
Washington State University
Pullman, Wash. 99163
Tel: (509) 335-4712

AREAS OF INTEREST: Wood science; wood technology; adhesion; nondestructive testing; timber construction; timber physics; composition board; finger jointing and laminating of lumber; residential housing design and technology.

HOLDINGS: 60 books; 250 standards and specifications; 4,700 reports; 1,000 preprints and reprints; 120 bibliographies; 120 publication lists; 1,300 slides; samples, data.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides research services on contract basis.

State of Washington Water Research Center

2811 Washington State University
Pullman, Wash. 99163
Tel: (509) 335-5531

AREAS OF INTEREST: Agricultural, industrial, and municipal water uses and wastes; aquatic biology; aquifers; basalt hydrology; carbon dating of waters; climatological factors; dams; ecology; water economics; environmental factors; estuaries; eutrophication; evapotranspiration; fisheries; fluid mechanics and hydraulics; forest influences; governmental institutions; ground water; hydrogeology of glacial deposits; hydrology; infiltration; irrigation; lakes and limnology; land-water relations; meteorology; nutrients; water pollution; precipitation; ground-water recharge; recreation; reservoir mechanics and management; runoff; soil mechanics; storm water; streamflow; water systems; thermal water problems; ungaged streams; urban problems; water law and water rights; water policy; water quality; watersheds.

HOLDINGS: Books, technical reports, reprints, pamphlets, maps, charts, photos, slides, data compilations.

PUBLICATIONS: Reports, reprints, pamphlets, press releases.

INFORMATION SERVICES: Answers technical inquiries; provides consulting services; permits onsite use of collections. Extensive library research is provided on a cost basis.

Washington Agricultural Experiment Station

2812 Washington State University
Pullman, Wash. 99163
Tel: (509) 335-4563

AREAS OF INTEREST: General agriculture; agronomy; agricultural chemistry; agricultural engineering; animal science; dairy science; entomology; forestry; range management; home economics; horticulture; plant pathology; poultry science; rural sociology; veterinary science; soil science; agricultural economics.

PUBLICATIONS: Technical reports and bulletins.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

Branch Stations: Dry Land Research Unit, Lind, Wash.; Irrigated Agriculture Research and Extension Center, Prosser, Wash.; Northwestern Washington Research Unit, Mount Vernon, Wash.; Southwestern Washington Research Unit, Vancouver, Wash.; Tree Fruit Research Center, Wenatchee, Wash.; Western Washington Research and Extension Center, Puyallup, Wash.

WASHINGTON STATE WATER POLLUTION CONTROL COMMISSION

2813 P.O. Box 829
Olympia, Wash. 98501
Tel: (206) 753-6874

AREAS OF INTEREST: Water pollution and water pollution control; water quality; water standards; municipal and industrial waste discharge; natural and environmental influences on water quality; water quality surveillance; enforcement of water quality standards; planning of water resources.

HOLDINGS: Small reference library of 250 books, 1,000 journals, and 2,500 other items, including Government documents, project records, research reports, annual and progress reports, planning studies, and technical bulletins. Water quality data is stored on paper tape and IBM punched cards.

PUBLICATIONS: Laws, rules, regulations, technical reports, and plans relating to water pollution and water pollution control; pamphlets and brochures of general interest in the area of water quality and pollution control.

INFORMATION SERVICES: Answers inquiries; makes referrals; distributes pamphlets, brochures, etc., relating to water pollution and water pollution control, published by Federal and other agencies; permits onsite use of literature collection; assists service organizations in public information and education programs; conducts chemical and biological analyses of pollution potential of wastes; answers complaints and reports of alleged water pollution, including the analyses of water samples submitted.

WASHINGTON UNIVERSITY, ST. LOUIS

Thermodynamics Research Laboratory

2814 Box 1144
Washington University
St. Louis, Mo. 63130
Tel: (314) 863-0100

AREAS OF INTEREST: Thermodynamic properties of liquids and liquid mixtures, particularly phase equilibria, heats-of-mixing, and volumes-of-mixing; retrieval, evaluation, and dissemination of literature data; experimental measurement of new data; correlation of data.

HOLDINGS: Over 1,000 periodical titles; books, reports.

PUBLICATIONS: Bibliographies.

INFORMATION SERVICES: Provides reference, literature-searching, and abstracting and indexing services; permits onsite use of collection. Services are provided at cost to all users.

WATER AND WASTEWATER EQUIPMENT MANUFACTURERS ASSOCIATION, INC.

2815 744 Broad St.
Newark, N.J. 07102
Tel: (201) 623-1727

AREAS OF INTEREST: Water and waste water treatment and related equipment.

INFORMATION SERVICES: Answers inquiries about equipment and makes referrals to member companies and other organizations; sponsors educational exhibits of water and waste water equipment at conferences of American Water Works Association and Water Pollution Control Federation.

WATER CONDITIONING ASSOCIATION INTERNATIONAL

2816 P.O. Box 651
Wheaton, Ill. 60187

Location:

325 West Wesley St.
Wheaton, Ill.
Tel: (312) 668-2892

AREAS OF INTEREST: Water quality; water conditioning equipment.

HOLDINGS: 50 books; 153 slides; motion pictures, photos, reviews, periodicals, newsletters, preprints, reprints, bibliographies, clippings, tearsheets, maps, charts, standards and specifications, data.

PUBLICATIONS: Proceedings.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference and consulting services; permits onsite reference.

This Association is composed of retail dealers in water conditioning equipment.

WATER CONDITIONING FOUNDATION

2817 1780 Maple St.
Northfield, Ill. 60093
Tel: (312) 446-7864

AREAS OF INTEREST: Domestic, commercial, and industrial water-conditioning equipment and materials; purification chemicals; water softeners; reverse osmosis deionizers; demineralizers; filters; feeders; mechanical equipment for conversion of water at the point of use.

PUBLICATIONS: WCFI training course on Water Treatment Fundamentals (available at nominal cost); technical, educational, and promotional bulletins and pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services, water laboratory analyses, and testing of water treatment equipment for fee.

WATER CONDITIONING RESEARCH COUNCIL

2818 P.O. Box 651
Wheaton, Ill. 60187

Location:

325 West Wesley St.
Wheaton, Ill.
Tel: (312) 668-8892

This Research Council is cosponsored by the Water Conditioning Association International and the Association of Water Conditioning Equipment Manufacturers.

AREAS OF INTEREST: Water resources; water quality; water conditioning.

HOLDINGS: Books, reports, papers.

INFORMATION SERVICES: Answers inquiries; makes referrals.

WATER CONVERSION INSTITUTE

2819 1435 G St. NW.
Washington, D.C. 20005
Tel: (202) 628-7055

AREAS OF INTEREST: Conversion of salt and brackish waters into potable water; ground water; municipal and industrial water treatment; water economics.

INFORMATION SERVICES: Answers technical inquiries; makes referrals; provides consulting services.

WATER INFORMATION CENTER, INC.

2820 Water Research Bldg.
Manorhaven Isle
Port Washington, N.Y. 11050
Tel: (516) 883-6780

AREAS OF INTEREST: Water resources; waste disposal; water conservation; water purification; water use; artificial rainmaking; desalination; water supply; fluorination; water pollution; aquatic science; hydrology; irrigation; water reclamation; sewage; water law.

HOLDINGS: 600 books; 3,000 journals; 2,500 reports; maps, charts, data.

PUBLICATIONS: *Water Newsletter* (semimonthly) and the supplemental *Research and Development News* (monthly); *Water Atlas of the United States*, with an accompanying text; *Water Encyclopedia*. All publications are available by purchase or subscription.

INFORMATION SERVICES: Answers technical inquiries; provides consulting services for fee.

WATER POLLUTION CONTROL FEDERATION

2821 3900 Wisconsin Ave. NW.
Washington, D.C. 20016
Tel: (202) 362-4100

AREAS OF INTEREST: All aspects of waste water handling and control of water pollution, including the following water subjects: aeration; aquatic biology; aquatic ecology; aqueous solutions; aquifers; chlorination; corrosion; detergents in water; droughts; estuaries; eutrophication; fish diseases; fishkills; fluid mechanics; fluoridation; water gaging; ground water and ground-water recharge; hydraulics; water instrumentation; irrigation; lakes; limnology; mine acid drainage; pesticides in water; water pollution control and abatement; effects and sources of water pollution; reservoirs; rivers; runoff; saline tolerance of crops; salt water intrusion; sedimentation; sewage treatment; sewers and sewerage; solutes and solutions; storms; streamflow; streams; water data telemetry; industrial, municipal, and radioactive wastes; waste treatment; waste water; water analysis; water chemistry; water compacts; water conservation; water cycle; water distribution; water economics; water law; water measurement; water microbiology; water quality; water reclamation; water requirements; water resources information systems, legislation, management, manpower, planning, publications, and research; water reuse; water rights; watersheds; agricultural, industrial, municipal, recreational, and rural water use.

HOLDINGS: 1,000 books; 3,000 reports; 4,500 journals; 500 abstracts and indexes; 1,000 newsletters and newspapers; 1,000 preprints and reprints; 500 pamphlets.

PUBLICATIONS: *Journal: Water Pollution Control Federation* (monthly, with quarterly research supplement); *Highlights* (monthly newsletter); *Deeds and Data* (monthly educational newsletter for operating personnel); manuals of technical practice in water pollution control, including safety, sewer use ordinances, chlorination, aeration, units of mathematical expression, sewer maintenance, sewer design, waste water treatment plant design and operation, accounting procedures, laboratory procedures, anaerobic sludge digestion, paints and protective coatings for waste water treatment facilities, and sludge dewatering; waste water treatment plant operator training courses and visual aids; public relations handbook; safety instructional materials.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides reference services; permits onsite use of literature collection by appointment.

WATER RESOURCES ASSOCIATED

2822 1130 17th St. NW.
Washington, D.C. 20036
Tel: (202) 223-0652

AREAS OF INTEREST: Water and soil resources; pollution control; navigation; economic development along inland waterways; flood control; irrigation; recreation; hydroelectric power.

HOLDINGS: Project reports, Annual Platform of Association's position on governmental policies, legislation, and endorsed projects.

PUBLICATIONS: *Newsletter* (monthly); pamphlets, booklets.

INFORMATION SERVICES: Answers inquiries; makes referrals.

Field offices are located as follows: Town House, P.O. Box 1310, Kansas City, Kans. 66117, tel: (913) 342-5370; 225 South Meramec Ave., St. Louis, Mo. 63105, tel: (314) 725-6679; International Trade Mart Tower, New Orleans, La. 70130, tel: (504) 525-3402; Omaha National Bank Bldg., Omaha, Nebr. 68102, tel: (402) 341-1378.

WATER RESOURCES ASSOCIATION OF THE DELAWARE RIVER BASIN

2823 901 Stephen Girard Bldg.
21 South 12th St.
Philadelphia, Pa. 19107
Tel: (215) 563-8572

AREAS OF INTEREST: Conservation and development of water and related resources in the Delaware River Basin (Pennsylvania, New Jersey, Delaware, and New York States).

HOLDINGS: 500 books; 100 reports; 100 maps and charts; 1,000 pamphlets; 4 motion pictures; slides, abstracts, indexes.

PUBLICATIONS: Bulletins, pamphlets.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; provides speakers for service, educational, or nonprofit organizations; permits onsite reference.

WATER RESOURCES COUNCIL

2824 1025 Vermont Ave. NW.
Washington, D.C. 20005
Tel: (202) 382-6104

The Council maintains a continuing study of U.S. water resources and approves grants to States for comprehensive water and related land resources planning. Its members are the Secretaries of Interior, Agriculture, Army, Health, Education, and Welfare, and Transportation, and the Chairman of the Federal Power Commission; associate members are the Secretaries of Commerce and Housing and Urban Development; observers are the Attorney General and the Director of the Bureau of the Budget.

AREAS OF INTEREST: Water resources (Federal planning and action programs); standards and procedures for water resources planning and project evaluation; river basin planning.

PUBLICATIONS: *Proceedings of National Conference of State and Federal Water Officials, Salt Lake City, Utah* (1969); *Procedures for Evaluation of Water and Related Land Resources Projects* (1969); *Proposed Flood Hazard Evaluation Guidelines for Federal Executive Agencies* (1969).

INFORMATION SERVICES: Answers inquiries regarding Federal water resources policy and planning; makes referrals.

WATER SYSTEMS COUNCIL

2825 205 West Wacker Dr.
Chicago, Ill. 60606
Tel: (312) 346-1863

AREAS OF INTEREST: Design, manufacture, installation, and operation of farm and urban water systems; construction and installation of individual wells; treatment of individual water supplies.

PUBLICATIONS: *Water System and Treatment Handbook* (4th ed.); *Recommended Industry Practices*; pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals.

WATERVLIET ARSENAL

see Army, Department of the. Army Materiel Command. Army Weapons Command

WAVE PROPAGATION LABORATORY

see Commerce, Department of. Environmental Science Services Administration. Research Laboratories

WAYNE STATE UNIVERSITY

Center for the Application of Science and Technology

2826 4866 Third Ave.
Wayne State University
Detroit, Mich. 48202
Tel: (313) 833-1400 Ext. 7332

AREAS OF INTEREST: Literature of technology applicable to industry.

HOLDINGS: NASA reports, abstracts, reprints, bibliographies, state-of-the-art reviews, formal publications, translations, etc.; NASA materials on microfiche and computer tapes; indexes of STAR, IAA, GWIFRD, and NSA.

PUBLICATIONS: *Metal Joining Digest* (monthly); demand bibliographies.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting, current awareness, reference, bibliographic, and duplication services for fee; permits onsite use of collection.

Science Library

2827 Wayne State University
Detroit, Mich. 48202
Tel: (313) 577-4066

AREAS OF INTEREST: Biology; chemistry; engineering; geology; mathematics; nursing; pharmacy; physics.

HOLDINGS: 108,000 books; 87,000 bound periodicals; 52,000 Government documents.

INFORMATION SERVICES: Provides reference and duplication services; makes interlibrary loans; permits onsite reference.

WEATHER BUREAU

see Commerce, Department of. Environmental Science Services Administration

WEBB INSTITUTE OF NAVAL ARCHITECTURE

Library

2828 Webb Institute of Naval Architecture
Crescent Beach Rd.
Glen Cove, N.Y. 11542
Tel: (516) 671-0439

AREAS OF INTEREST: Naval architecture; marine engineering; marine history.

HOLDINGS: 18,000 books and bound periodicals; 125 periodical subscriptions; approximately 2,200 reports; 500 phonograph records.

INFORMATION SERVICES: Answers inquiries; permits onsite reference by appointment.

WEINSCHEL ENGINEERING CO., INC.

2829 P.O. Box 577
Gaithersburg, Md. 20760

Location:

Clopper Rd.
Gaithersburg, Md.
Tel: (301) 948-3434

AREAS OF INTEREST: Microwave measurement and instruments; microwave calibration equipment and other test equipment; miniaturization; electronic standards; attenuators; resistors; microwave components and standards.

HOLDINGS: 2,000 books; 3,000 periodicals; 5,000 abstracts; 3,700 reprints; 3,000 pamphlets; 3,000 reports; 1,500 standards and specifications; 2,000 reviews.

PUBLICATIONS: Pamphlets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite use of collection by clients, Government agency representatives with established need-to-know, and scientists by request.

WELDING RESEARCH COUNCIL

2830 345 East 47th St.
New York, N.Y. 10017
Tel: (212) 752-6800

AREAS OF INTEREST: Welding, its science and technology, including metallurgy, structural, fatigue of welded joints, high alloys, pressure vessels, and resistance welding.

HOLDINGS: Proceedings, data.

PUBLICATIONS: *Reports of Progress* (monthly); *Welding Research* (monthly); *Welding Research Abroad* (monthly); *Welding Research News* (bimonthly); bulletins, state-of-the-art reports, books.

INFORMATION SERVICES: Answers brief inquiries; makes referrals.

WESLEYAN UNIVERSITY

Van Vleck Observatory

2831 Wesleyan University
Middletown, Conn. 06457
Tel: (203) 347-4421 Ext. 303

AREAS OF INTEREST: Astronomy; astrophysics; astrometry (parallaxes and proper motions of stars); galactic structure; stellar dynamics; studies of clusters of galaxies.

HOLDINGS: 20,000 astronomical photographic plates; 20 Palomar atlases, representing most of the important astronomical atlases, and containing between 1,000 and 2,000 maps or charts per atlas; books, journals.

PUBLICATIONS: *Publications of the Van Vleck Observatory* (irregular); reprints of current articles in professional journals by staff members.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; lends books and journals.

Facilities include refractors of 20-inch and 6-inch aperture, Joyce Loebl microdensitometer, Mann measuring engine, Gaertner measuring engine, Iris photometer, and a photographic dark room.

WEST POINT PEPPERELL, INC.

Research Center Library

2832 West Point Pepperell, Inc.
Shawmut, Ala. 36876
Tel: (205) 768-2111

AREAS OF INTEREST: Research and development of new products and processes relating to textiles, including textile processing, chemical finishing, and electronic measurement and control.

HOLDINGS: 8,000 books; journals, patents, data, reports.

INFORMATION SERVICES: Provides reference and duplication services; makes interlibrary loans; permits onsite use of literature collection.

WEST VIRGINIA AGRICULTURAL EXPERIMENT STATION

see West Virginia University

WEST VIRGINIA COAL MINING INSTITUTE

2833 Box 1052
Morgantown, W. Va. 26505

Location:

112 Mineral Industries Bldg.
West Virginia University
Morgantown, W. Va.
Tel: (304) 293-3011

AREAS OF INTEREST: Coal mining (particularly West Virginia); engineering and economics connected with coal mine development and operation; mine ventilation.

PUBLICATIONS: Transactions of the Institute.

INFORMATION SERVICES: Provides copies of the Institute's transactions to members and limited number of libraries without charge, and to nonmembers for fee.

WEST VIRGINIA DEPARTMENT OF MINES

2834 Capitol Bldg.
Charleston, W. Va. 25305
Tel: (304) 343-4411

AREAS OF INTEREST: Mining in West Virginia (regulations, economics); protection of health and safety of persons in mines; protection of mines.

HOLDINGS: Maps, charts, data compilations. Oil and gas well location maps and well logs may be obtained through the Allen Blueprint and Supply Co., Charleston, W. Va.

PUBLICATIONS: Annual report.

INFORMATION SERVICES: Answers brief inquiries; makes referrals; permits onsite use of collection.

WEST VIRGINIA DEPARTMENT OF NATURAL RESOURCES

Division of Water Resources

2835 West Virginia Department of Natural
Resources
1201 Greenbrier St.
Charleston, W. Va. 25311
Tel: (304) 348-2107

AREAS OF INTEREST: Water pollution control, including industrial, municipal, and other wastes; water resources development, including water and related land resources planning and management.

HOLDINGS: A working collection of books, periodicals, and reports.

INFORMATION SERVICES: Answers inquiries; provides reports related to pollution control and water resources in West Virginia.

Facilities include a floating laboratory for stream studies, a trailer laboratory for field work, and extensive laboratory equipment.

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY

2836 P.O. Box 879
Morgantown, W. Va. 26505

Location:

Mineral Industries Bldg.
West Virginia University
Willey St.
Morgantown, W. Va.
Tel: (304) 296-4461 or 296-4462

AREAS OF INTEREST: Geology and natural resources of West Virginia in particular and the United States in general; environmental geology and land use planning; coal; Appalachian area oil and gas wells;

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natural gas; petroleum; minerals; clays; topographic and geologic mapping; water resources; construction materials; fossils; paleobotany; archeology.

HOLDINGS: 10,000 data analyses; 4 million feet of drill cuttings and core samples; 60,000 well plats and drillers' logs; 1,500 geophysical logs; 4,083 volumes of textbooks and bound periodicals; 16,676 technical pamphlets; 30 journal subscriptions with up to 70 years' coverage; 11,694 topographic sheets, maps and folios, geologic, drainage, relief, and various other maps from many States and foreign countries; 6,500 aerial photographs; 500 lantern slides.

PUBLICATIONS: Geologic publications include volumes, bulletins, river basin bulletins, reports of investigations, basic data reports, circulars, detailed county geologic reports, educational series, State park bulletins, field trip guides, State and county maps, topographic quadrangle maps, geologic quadrangle maps, newsletters, an annual report, and press releases. Archeological publications include an educational series, archeological series, and reports of archeological investigations. A list of publications is available.

INFORMATION SERVICES: Answers inquiries; provides consulting services to State agencies; provides literature-searching and duplication services; provides analysis, testing, and identification of geologic samples; makes referrals. The library and the well sample library may be used by the public.

WEST VIRGINIA HEALTH DEPARTMENT

Environmental Health Service

2837 West Virginia Health Department
1800 Washington St. East
Charleston, W. Va. 25311
Tel: (304) 343-4411 Ext. 2970

AREAS OF INTEREST: Sanitary engineering; industrial hygiene; sewage; water supply; water pollution; milk sanitation; restaurant sanitation; solid wastes; radiological hygiene; recreational sanitation.

HOLDINGS: Journals, maps, charts, standards and specifications.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

WEST VIRGINIA SCIENCE AND TECHNOLOGY UNIT

2838 West Virginia Department of Commerce
State Capitol, Room E-404
Charleston, W. Va. 25305
Tel: (304) 348-2280

AREAS OF INTEREST: New products, industrial processes, and methods in the fields of wood technology, chemicals, metallurgy, metal processes, nuclear technology, electronics, extractive industries, information sciences, and management methods.

HOLDINGS: Technical reports, technical directories, abstracts, bibliographies. (The Unit has cooperative arrangements with university and public libraries.)

PUBLICATIONS: *Technical Services Newsletter* (quarterly); *Technical News Briefs.*

INFORMATION SERVICES: Answers inquiries; makes referrals; provides advisory services; sponsors demonstration projects, seminars and workshops in cooperation with academic institutions and technical societies. Seminars, conferences, and workshops may require nominal charges to cover costs; other services are free to business and to professional and technical personnel.

WEST VIRGINIA UNIVERSITY

Agriculture-Engineering Library

2839 Evansdale Campus
West Virginia University
Morgantown, W. Va. 26506
Tel: (304) 293-5039

AREAS OF INTEREST: Aerospace, agricultural, chemical, civil, electrical, industrial, and mechanical engineering; agriculture; forestry (excluding plant pathology and home economics).

HOLDINGS: 45,000 books and periodicals; 90,000 reports published by the Atomic Energy Commision and National Aeronautics and Space Administration (the Library serves as a selective depository library); 16,000 items from agricultural experiment stations in all States.

PUBLICATIONS: Union list of serials (annual).

INFORMATION SERVICES: Makes interlibrary loans; makes direct loans to students, faculty, and State residents; provides duplication services; provides reference and bibliographic services to faculty and State residents; permits onsite reference.

Coal Research Bureau

2840 School of Mines
West Virginia University
Morgantown, W. Va. 26506
Tel: (304) 293-3013

AREAS OF INTEREST: Increasing the uses and markets for West Virginia coals by research in coal carbonization, desulfurization, utilization and beneficiation of coal-associated minerals, production of structural products from coal ash and refuse, sewage treatment using coal, acid mine drainage, air pollution, coal preparation, and computer applications to mining and coal utilization.

HOLDINGS: Hundreds of publications relating to the coal industry; complete cross-indexed files of U.S. and foreign patents relating to coal.

PUBLICATIONS: Report series issued periodically on Bureau findings.

INFORMATION SERVICES: Answers brief inquiries; provides consulting services for fee; conducts contract research in areas of interest.

The Bureau has complete pilot scale coal preparation facilities; complete analytical facilities, including wet chemistry, emission spectroscopy, atomic absorption and X-ray analysis, coal petrography, particle size analysis, and microscopy; a computational center housing an IBM 360/75 computer and CalComp plotting equipment; pilot plant facilities, including semicommercial size equipment for production of brick, block, and other structural products, mineral wool, and metallurgical coke.

Engineering Experiment Station

2841 Engineering Sciences Bldg.
West Virginia University
Morgantown, W. Va. 26506
Tel: (304) 293-4821

AREAS OF INTEREST: The Station coordinates the University's programs of research in the areas of transportation science, heat and mass transfer, structural mechanics, environmental engineering, biomedical engineering, and material science.

INFORMATION SERVICES: Answers technical inquiries; provides consulting services; disseminates technical and research bulletins.

General Library

2842 West Virginia University
Morgantown, W. Va. 26506
Tel: (304) 549-3411 Ext. 485

AREAS OF INTEREST: Physical, natural, medical, and social sciences; arts and humanities; law; West Virginia history.

HOLDINGS: 760,000 volumes; a special collection of West Virginia historical material, consisting of over 3 million manuscripts, papers, and records; technical reports and Government documents (the Library is a depository for U.S. Atomic Energy Commission reports).

PUBLICATIONS: Accessions list (monthly, available to libraries).

INFORMATION SERVICES: Makes interlibrary loans; permits onsite reference.

Mathematics Research Library

2843 Mathematics Bldg.
West Virginia University
Morgantown, W. Va. 26506
Tel: (304) 293-2014

AREAS OF INTEREST: Advanced mathematics, particularly number theory, geometry, combinatorial analysis, and theory of special functions.

HOLDINGS: 8,000 books; 200 journal subscriptions.

PUBLICATIONS: Index of periodicals (irregular).

INFORMATION SERVICES: Makes interlibrary loans; provides duplication services through the University library; permits onsite reference.

West Virginia Agricultural Experiment Station

2844 West Virginia University
Morgantown, W. Va. 26506
Tel: (304) 293-2991

AREAS OF INTEREST: General agriculture; animal industries and sciences; engineering; plant industries and sciences; economics; management; marketing; genetics; soil sciences; animal and plant pathology; biochemistry; bacteriology; entomology.

HOLDINGS: 500 books; 900 scientific papers.

PUBLICATIONS: *West Virginia Agriculture and Forestry* (quarterly); bulletins, circulars, current reports.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite reference.

Branch Stations: Ohio Valley Experiment Farm, Point Pleasant, W. Va.; Reedsville Experiment Farm, Reedsville, W. Va.; Reymann Memorial Farm, Wardensville, W. Va.; University Experiment Farm, Kearneysville, W. Va.

Water Research Institute

2845 West Virginia University
Morgantown, W. Va. 26506
Tel: (304) 293-4201

AREAS OF INTEREST: Water resources in West Virginia, including standards for aquatic life in water polluted by mine acid drainage; microbiology of mine acid drainage streams; effects of mine acid water on fish, vascular aquatic plants, and sewage microbes; geochemical behavior of iron and manganese in reservoirs with mine acid drainage; runoff on small watersheds; surface and ground-water hydrography; hydrologic design of small drainage structures; influence of topographic features on rainfall; sedimentation in reservoirs; waste water treatment; other water quality and environmental areas.

PUBLICATIONS: *An Annotated Bibliography of Water Resource Papers Pertaining to West Virginia*; *West Virginia Water Symposium Proceedings, 1963*; *Influence of Topography on Rainfall in West Virginia* (Bulletin 1); *Survival and Activity of Sewage Microorganisms in Acid Mine Water* (Research Report 1); *Algae in Relation to Mine Water* (Journal Report 1).

INFORMATION SERVICES: Answers brief inquiries; makes referrals.

WESTERN KENTUCKY UNIVERSITY

Ogden College of Science and Technology

2846 Western Kentucky University
Bowling Green, Ky. 42101
Tel: (502) 745-4448

AREAS OF INTEREST: Flame photometry; atomic absorption spectroscopy; Lewis acid-base interactions of group IIIA metal acids; organometallic chemistry of platinum; organic photochemistry; emission spectroscopy; analysis of gold-silver alloys; crayfish variability; optical sound; parasitology (fish); taxonomy and ecology of fresh water algae; thermoluminescence; radiation detection and measurement; X-ray analysis; neutron inelastic scattering; neutron activation analysis; photosensitization; organic semiconductors; solid state chemistry; acoustics; polymer physics; statistical mechanics; electronics; radio astronomy; long wave radio astronomy; geoastrophysics; thermoelectric properties of oxides; homogenous catalysis.

INFORMATION SERVICES: Answers inquiries; provides consulting services, normally for a fee.

University Libraries

2847 Western Kentucky University
Bowling Green, Ky. 42101
Tel: (502) 745-3951 (Margie Helm Library)
(502) 745-3958 (Science Library)
(502) 745-2592 (Kentucky Library)

AREAS OF INTEREST: Agriculture, including animal nutrition, plant pathology, soils, agronomy, animal breeding, and plant breeding; chemistry, including analytical, organic, physical, inorganic, and biochemistry; geology, including mineralogy, petrology, paleontology, sedimentation, structural geology, and geomorphology; mathematics, including computer science, complex analysis, real analysis, differential equations, probability and statistics, operations research, topology, and functional analysis; physics, including thermoluminescence, radiation dosimetry, astrophysics, radio astronomy, atomic physics, solid state, thermodynamics, statistical mechanics, mass spectrometry, thin films in high vacuum, heat transfer physics, electron diffraction, astronomy, physics education, nuclear physics (neutron activation analysis), photosensitization (organic semiconductors), acoustics, and atomic beam experiments; engineering technology, including civil engineering, structures and soil mechanics, electronics, electrical power, machine design, manufacturing engineering, and route surveying and highways; Kentuckiana; law; American and Southern history; folklore.

HOLDINGS: The libraries contain some 400,000 volumes, 2,500 journal subscriptions, and holdings of documents, microforms, manuscripts, recordings, and related materials. The Margie Helm Library is a depository for selected Government publications. The Science Library, located in the Kelly Thompson Science Complex, has books, abstracts, indexes, journals, and NASA publications for the departments of Agriculture, Biology, Chemistry, Engineering Technology, Physics, and Mathematics. The Kentucky Library houses a noncirculating collection of rare Kentuckiana dealing with every phase of life in the State, and includes rare manuscripts, diaries, letters, newspapers, journals, and the genealogical library of the Samuel Davies Chapter of the

Daughters of the American Revolution. The Kentucky Museum, in the same building as the Kentucky Library, has a large zoology collection of 450 sets of birds' eggs and a large number of nests.

PUBLICATIONS: News journal (weekly).

INFORMATION SERVICES: Answers inquiries; provides duplication services; makes interlibrary loans; permits onsite reference.

WESTERN NUCLEAR, INC. LIBRARY

2848 1700 Broadway, Suite 1900
Denver, Colo. 80202
Tel: (303) 255-0471

AREAS OF INTEREST: Metallurgy; ores; atomic power plants; industrial applications of nuclear energy; uranium mining and milling; sulphuric acid manufacture.

HOLDINGS: 50 periodicals; books, reports; Canadian Geological Library (a collection).

PUBLICATIONS: Monthly newsletter.

INFORMATION SERVICES: Answers inquiries; lends materials; permits onsite reference with prior approval. Services are available to scientists and other professionals, engineers, and industrialists having a need-to-know.

WESTERN RESEARCH APPLICATION CENTER

see University of Southern California

WESTERN SINGLE SIDE BAND ASSOCIATION INC.

2849 P.O. Box 568
San Pedro, Calif. 90732

Location:
1765 West 27th St.
San Pedro, Calif.
Tel: (213) 832-0625

AREAS OF INTEREST: Electronic communication (radio) by use of the suppressed carrier technique, including improved operating techniques; voice-operated relay telephony and research on speech processing in telephony to increase its efficiency.

HOLDINGS: Reports. Individual Association members have collected pioneer communication equipment for display.

PUBLICATIONS: Reports, directories.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services.

WESTERN STATES WATER COUNCIL

2850 1776 University Club Bldg.
Salt Lake City, Utah 84111
Tel: (801) 521-2800

AREAS OF INTEREST: Water resource planning and development on a regional basis.

HOLDINGS: 500 reports; 25 periodical titles.

PUBLICATIONS: Technical reports, annual report.

INFORMATION SERVICES: Answers inquiries; disseminates publications.

WESTERN UNION

Information Services

2851 Western Union
60 Hudson St.
New York, N.Y. 10013
Tel: (212) 577-4321

AREAS OF INTEREST: Telecommunications; telegraph services, including direct dial two-way customer to customer communication "Telex"; facsimile systems (leased "Intrafax") or public intercities "-Wirefax" for transmission and delivery of exact copies of full-page documents, drawings, maps, blueprints, and other graphic data; private wire service (custom built or leased), including voice communication (telephone); alternate record-voice service (talk and alternately transmit record communications), such as facsimile or teleprint messages and data (including those in punched card or paper and magnetic tape form); microwave communication, which permits high-speed coast-to-coast voice, record, and video communication; electronics, including computer and electromechanical data switching, processing, and communication systems and equipment; multiplex and signal shaping amplifiers; nuclear bomb alarm (audible and visual display) system; sensory devices; circuitry; solid state devices; message priority selection; message routing; electronic control devices for air traffic, signal quality, and radio-wire switching control.

HOLDINGS: Books, journals, reports, data.

PUBLICATIONS: Brochures, reports, leaflets.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services for fee, as negotiated; makes interlibrary loans.

The Technology Center, Mahwah, N.J., houses second and third generation computer equipment for development and expansion of services and facilities and for corporate technological planning.

WESTERN WASHINGTON STATE COLLEGE

Wilson Library

2852 Western Washington State College
Bellingham, Wash. 98225
Tel: (206) 734-8800

AREAS OF INTEREST: Science and technology; mathematics; marine biology.

HOLDINGS: 231,496 volumes; 3,185 periodicals; 75,113 microforms; 30,000 maps; reports, films, photos, charts.

INFORMATION SERVICES: Makes interlibrary loans.

The Library maintains an IBM 360/40 computer center.

WESTERN WOOD PRODUCTS ASSOCIATION

2853 1500 Yeon Bldg.
Portland, Oreg. 97204
Tel: (503) 224-3930

AREAS OF INTEREST: Lumber of 12 western States, including grading, uses, technical problems associated with seasoning, marketing, distribution, and quality control; statistics on the production and sale of lumber; forest conservation.

PUBLICATIONS: *Plumb Line* (weekly newsletter for members only); statistical reports, directory of producers, technical manuals, grading rules. A publications list is available.

INFORMATION SERVICES: Provides information concerning forest conservation, urban and rural environmental care and improvement, and lumber utilization.

WESTINGHOUSE ELECTRIC CORP.

Westinghouse Atomic Power Divisions

Technical Information Center Library

2854 Westinghouse Atomic Power Divisions
P.O. Box 355
Pittsburgh, Pa. 15230

Location:

Penn Center, Wilkins Township
Pittsburgh, Pa.
Tel: (412) 256-4200

AREAS OF INTEREST: Atomic energy, including atomic power plants, nuclear science, engineering, materials, technology, and nuclear fuels; mathematics; physics; chemistry.

HOLDINGS: 8,000 books; 450 periodical titles; 3,000 bound and filmed periodicals; 125,000 reports; 2,000 pamphlets; Atomic Energy Commission reports and legislation; hearings of the Joint Committee on Atomic Energy.

PUBLICATIONS: Accessions list, reports, bibliography.

INFORMATION SERVICES: Provides limited reference services; makes interlibrary loans.

WET GROUND MICA ASSOCIATION

2855 Eden Hill Rd.
Rural Delivery 2
Newtown, Conn. 06470
Tel: (203) 426-5958

AREAS OF INTEREST: Mineral pigments.

PUBLICATIONS: *Paint Formulary*; pamphlets.

INFORMATION SERVICES: Answers brief inquiries; makes referrals.

WHIRLPOOL INFORMATION CENTER

2856 Research Center-Monte Rd.
Benton Harbor, Mich. 49022
Tel: (616) 925-0651

AREAS OF INTEREST: Laundering; chemistry of the washing bath; controlled atmosphere; food preservation and food storage; refrigeration, including absorption refrigeration; manufacturing process; materials; electronics; ecology and consumer protection.

HOLDINGS: 15,000 reports; 1,000 standards and specifications; 6,000 books; 500 journals; abstracts, indexes, newsletters, preprints, pamphlets, data.

PUBLICATIONS: *Weekly Literature Review*; *WIN (Whirlpool Information Network) Alert* (monthly).

INFORMATION SERVICES: Permits onsite use of literature collection.

WHITTAKER CORP.

Nuclear Metals Division

2857 Whittaker Corp.
P.O. Box 125
West Concord, Mass. 01781
Tel: (617) 369-5410

AREAS OF INTEREST: Nuclear technology, including reactor engineering and technology, high-temperature materials and refractory metals, and related areas of chemistry and chemical engineering; metallurgy.

HOLDINGS: Reports, books, journals, patents, films, photos, data. Foreign literature includes material in Russian, French, German, and Polish.

PUBLICATIONS: Technical reports, conference proceedings.

INFORMATION SERVICES: Provides consulting, reference, and document services on limited basis. Access to the collections and distribution of extra copies of original documents are governed by patent and security requirements.

WILKIE BROTHERS FOUNDATION

2858 254 North Laurel Ave.
Des Plaines, Ill. 60016
Tel: (312) 824-1122

AREAS OF INTEREST: Tools, including the advancement of civilization through the use of tools and the economics of tools; nature studies.

HOLDINGS: A museum containing basic tools from the stone age, early steam engines and boats, and models of a variety of original machine tools; a collection of nature films; books, photos, maps, charts.

PUBLICATIONS: Educational wall charts and booklets.

INFORMATION SERVICES: Permits onsite reference; lends some materials.

WILLYS-OVERLAND-KNIGHT REGISTRY

2859 c/o Mr. Charlie Weaver, National Director
2754 Lullington Dr.
Winston-Salem, N.C. 27103
Tel: (919) 765-9635

AREAS OF INTEREST: The 70 or so makes of automobiles that used the Knight sleeve-valve engine; the 1903-1942 Willys-Overland automobiles.

HOLDINGS: Library of original material and photographs relating to these automobiles.

PUBLICATIONS: Quarterly magazine featuring members and cars, reproductions of old ads, and technical material; monthly newsletter featuring club news, want ads, and for sale ads.

INFORMATION SERVICES: The Registry is a central information source for owners and restorers of these particular automobiles. Library material is made available to members and other libraries only.

WINGFOOT-LIGHTER-THAN-AIR SOCIETY

2860 1210 Massillon Rd.
Akron, Ohio 44315

AREAS OF INTEREST: Balloons; dirigibles; airships; aerostats; lighter-than-air craft and its history.

HOLDINGS: 425 books; 100 reports; 715 periodicals; 305 pamphlets, booklets, leaflets, and brochures; 5,820 clippings and tear sheets; 5,417 photos; 319 devices; tapes, slides, scrap books, bibliographies, posters and other display materials, preprints, reprints.

PUBLICATIONS: Bulletin.

INFORMATION SERVICES: Answers inquiries; provides bibliographic services; permits onsite reference.

THE WIRE ASSOCIATION, INC.

2861 209 Montowese St.
Branford, Conn. 06405
Tel: (203) 488-6321

AREAS OF INTEREST: Wire and wire products; production of all types of wire (ferrous, nonferrous, electrical).

PUBLICATIONS: *Wire Journal* (monthly); *Wire Journal Directory/Catalog* (annual); *Steel Wire Handbook*.

INFORMATION SERVICES: Answers inquiries; makes referrals. A professional society of men in the wire industry, the Association sponsors meetings throughout the world where these men can present their ideas.

WISCONSIN AGRICULTURAL EXPERIMENT STATION

see University of Wisconsin

WISCONSIN DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS

Industrial Safety and Building Division

2862 Wisconsin Department of Industry, Labor and Human Relations
P.O. Box 2209
Madison, Wis. 53701

Location:

Hill Farm State Office Bldg.
4802 Sheboygan Ave.
Madison, Wis.
Tel: (608) 266-3151

AREAS OF INTEREST: Industrial safety; quarries and pits; mines; elevators; explosives; trench, excavation, and tunnel construction; cleaning and dyeing; flammable liquids; liquefied petroleum gases; electric fences; illumination; dusts, fumes, vapors, and gases; spray coating; sanitation; sanitary facilities in railroad terminals and cabooses; railroad employee welfare facilities; safety in construction; boilers and unfired pressure vessels; anhydrous ammonia; personnel hoists; mechanical refrigeration; towing and lifting devices for ski areas; amusement rides and devices; migrant labor camps; building code; heating and ventilation; fire prevention; electrical code.

PUBLICATIONS: Safety and building codes (available from the Department of Administration, Document Sales and Distribution, Room B-237, 1 West Wilson St., Madison, Wis. 53702).

INFORMATION SERVICES: Answers inquiries.

WISCONSIN DEPARTMENT OF NATURAL RESOURCES

2863 P.O. Box 450
Madison, Wis. 53701

Location:

4610 University Ave.
Madison, Wis.
Tel: (608) 266-2621

AREAS OF INTEREST: Conservation of natural resources; fish and game research and management; forestry; water resources; air and water pollution; solid waste disposal; pesticides; herbicides; fishkills.

HOLDINGS: Data from 70 research studies on fish, game, and water; 90 films; 10,000 photos; small technical library.

PUBLICATIONS: *Wisconsin Conservation Bulletin* (bimonthly); *Research in Wisconsin* (annual digest of research results in fish management); *Wetlands Inventory of Counties*; *Inventory of Surface Water Resources in Wisconsin*, by county; Technical Bulletin Series; Research Report Series.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services; permits onsite reference; lends films.

WISCONSIN DIVISION OF AERONAUTICS

2864 951 Hill Farm State Office Bldg.
4802 Sheboygan Ave.
Madison, Wis. 53702
Tel: (608) 266-3351

AREAS OF INTEREST: Wisconsin airports; aeronautics; aircraft; airmen; airspace; airport location, development, maintenance, and Federal regulations relating to construction; air defense (State); navigational aids; aviation education.

HOLDINGS: Aeronautical statistical data, laws and regulations, photos, slides, maps, charts, reports, standards, project records since 1940, Wisconsin Aeronautics Conference papers, reports on aviation surveys, and operation and management policies.

PUBLICATIONS: *Wisconsin Plan*; *State Airport System Plan*; proceedings, annual report, booklets, aeronautical charts, airport directories.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services and airport location analysis; permits onsite reference.

WISCONSIN GEOLOGICAL AND NATURAL HISTORY SURVEY

2865 1815 University Ave.
University of Wisconsin
Madison, Wis. 53706
Tel: (608) 262-1705

AREAS OF INTEREST: Geology, economic minerals (metallic and nonmetallic), soils, and water resources in Wisconsin.

HOLDINGS: Samples of well cuttings, well logs, geologic maps, soil maps, subsurface samples, research data.

PUBLICATIONS: *Bulletins*; *Information Circulars*.

INFORMATION SERVICES: Answers inquiries; permits onsite reference.

WISCONSIN STATE TECHNICAL SERVICES PROGRAM

see University of Wisconsin

WISCONSIN STATE UNIVERSITY

Department of Plant and Earth Science

2866 Wisconsin State University
River Falls, Wis. 54022
Tel: (715) 425-6701 Ext. 318

AREAS OF INTEREST: Earth science (geology); soils; agronomy; horticulture.

PUBLICATIONS: Reports.

INFORMATION SERVICES: Answers inquiries; provides consulting services. Services requiring extensive work necessitate a fee.

WOOD FLOORING INSTITUTE OF AMERICA

2867 1441 Shermer Rd.
Northbrook, Ill. 60062
Tel: (312) 498-3786

AREAS OF INTEREST: All types of wood floor constructions.

HOLDINGS: Data.

PUBLICATIONS: *Care and Preservation of Your Wood Floors*; *How to Prevent Cupping in Wood Floors*; *Recommendations for the Correct Preparation of Concrete to Receive Wood Floors*; specifications, brochure.

INFORMATION SERVICES: Answers inquiries.

WOODS HOLE OCEANOGRAPHIC INSTITUTION

2868 Document Library LO-206
Woods Hole, Mass. 02543
Tel: (617) 548-1400 Ext. 269

AREAS OF INTEREST: All aspects of oceanography, including instrumentation, marine meteorology, geology, and geophysics.

HOLDINGS: 15,000 technical reports.

PUBLICATIONS: *Oceanus* (quarterly), containing popular articles; technical reports, annual report. The Document Library issues a monthly accessions bulletin of technical reports received in the Library.

INFORMATION SERVICES: Answers telephone inquiries; lends unclassified technical reports to the scientific and educational community; permits onsite use of collection by persons introduced by staff members or affiliated with the Department of Defense; makes interlibrary loans.

WORCESTER POLYTECHNIC INSTITUTE

Alden Research Laboratory

2869 Worcester Polytechnic Institute
Worcester, Mass. 01609
Tel: (617) 829-4323

AREAS OF INTEREST: Hydraulics; hydraulic structures and materials; hydraulic machinery; fluid mechanics; waterflow measurement and flow meters; hydroelectric power installations; underwater missiles.

HOLDINGS: Numerous indoor and outdoor scale models for research on dams, harbors, spillways, reservoirs, hydroelectric structures, and ocean waves; a collection of notebooks, data compilations, technical reports, and reprints.

PUBLICATIONS: Brochures and booklets describing the Laboratory's facilities. Research results are issued as technical reports or published in professional journals.

INFORMATION SERVICES: Answers inquiries; provides consulting services; tests hydraulic machinery, calibrates flow meters, and conducts river model studies for a fee.

Architectural and Engineering Development Center

2870 Department of Civil Engineering
Worcester Polytechnic Institute
Worcester, Mass. 01609
Tel: (617) 753-1411 Ext. 421

AREAS OF INTEREST: Nuclear defense, with particular emphasis on radiation shielding of structures.

HOLDINGS: Small reference collection of books and reports.

PUBLICATIONS: Books, reports, manuals, design aids.

INFORMATION SERVICES: Answers inquiries; provides consulting services; lends materials; permits onsite use of collection. Services are available only to persons having a direct technical interest in radiation shielding of structures.

Department of Chemical Engineering

2871 Worcester Polytechnic Institute
Worcester, Mass. 01609
Tel: (617) 753-1411

AREAS OF INTEREST: Chemical kinetics and catalysis; turbulent combustion; hydrothermal synthesis; adsorption; preparation, modification, and characterization of molecular sieve zeolites.

INFORMATION SERVICES: Answers inquiries; provides consulting services. Services are provided free or for a fee, depending on amount and kind of information sought.

George C. Gordon Library

2872 Worcester Polytechnic Institute
Worcester, Mass. 01609
Tel: (617) 753-1411 Ext. 410

AREAS OF INTEREST: Civil, electrical, mechanical, and chemical engineering; physics; chemistry; mathematics; economics; management-engineering.

HOLDINGS: 56,000 books; 1,200 periodical titles; 16,000 reports; 225 microforms; 80 bibliographies and reference materials; 250 maps; 180 house organs; 6 drawers of pamphlets; 40 abstracts and indexes; 300 long-playing records; 85 tape recordings; 180 musical scores.

PUBLICATIONS: Accessions lists.

INFORMATION SERVICES: Answers inquiries; provides consulting, reference, literature-searching, and duplication services; makes referrals; makes interlibrary loans; permits onsite use of collection. Services are provided free or for a fee, depending upon time required.

WORLD DATA CENTER A

see National Academy of Sciences

WORLD MEETINGS INFORMATION CENTER

2873 824 Boylston St.
Chestnut Hill, Mass. 02167
Tel: (617) 731-4440

AREAS OF INTEREST: Scientific and technical meetings throughout the world.

HOLDINGS: Information on name, date, location, and sponsor of meetings, technical content of meetings, deadlines for submittal of papers or abstracts, publications issuing from meetings, exhibits, programs of meetings, paper titles, authors, and author addresses.

PUBLICATIONS: *Current Index to Conference Papers in Engineering* (monthly); *Current Index to Conference Papers in Chemistry* (monthly); *Current Index to Conference Papers in Life Sciences* (monthly); *World Meetings: United States and Canada* and *World Meetings: Outside U.S.A. and Canada* (both quarterly); *Calls for Papers* (weekly).

INFORMATION SERVICES: Information is disseminated principally through the publications and magnetic tape services, which are available on a subscription basis from CCM Information Corp., 909 Third Ave., New York, N.Y. 10022. Limited telephone or mail inquiries are responded to at no charge.

WORLD RESOURCES INVENTORY

see Southern Illinois University

WRIGHT STATE UNIVERSITY

Technical and Business Service

Network Referral Office

2874 Technical and Business Service
Wright State University
7751 Colonel Glenn Highway
Dayton, Ohio 45431
Tel: (513) 426-6650 Ext. 221

AREAS OF INTEREST: Sources of scientific and technological knowledge.

HOLDINGS: Small working collection of books, periodicals, and reports. The Office also has access to the collections of the Wright State University Library and associated libraries of consortium schools.

PUBLICATIONS: *Research News WSU*, newsletter.

INFORMATION SERVICES: Answers inquiries; provides consulting and reference services; makes referrals. Services are primarily for area business and industry, and are provided free.

WYANDOTTE CHEMICALS CORP.

Research Library and Technical Information Center

2875 Wyandotte Chemicals Corp.
Wyandotte, Mich. 48192
Tel: (313) 382-6000

AREAS OF INTEREST: Chemistry and chemical engineering of inorganic and organic chemicals, such as chloralkalies, calcium carbonate, glycols, alkylene oxides, polyethers, polyurethanes, and other polymeric materials; cleaning compounds.

HOLDINGS: 7,000 books; 7,600 journals; 1,100 reports; 90 vertical file drawers of miscellaneous items; 200 reels of microfilm; 10,000 abstracts on 4x6 cards.

PUBLICATIONS: *Literature News Monthly*; reports, journals, indexes, bibliography, translations.

INFORMATION SERVICES: Provides reference and duplication services; makes interlibrary loans; permits onsite reference by arrangement.

WYOMING AERONAUTICS COMMISSION

2876 State Office Bldg.
Cheyenne, Wyo. 82001
Tel: (307) 777-7481

AREAS OF INTEREST: General aviation; airplanes and helicopters; airports and air route structure development; air safety; air enforcement and aviation accident prevention; aviation education; search and rescue by air; forest fire control; agricultural aviation; insect control by air; chemicals and sprays for pest control by airplane.

HOLDINGS: Reports, data.

PUBLICATIONS: Biennial report.

INFORMATION SERVICES: Answers brief inquiries; provides technical guidance to students regarding vocational opportunities in the aircraft industry, using as a source the National Aviation Education Council.

WYOMING AGRICULTURAL EXPERIMENT STATION

see University of Wyoming

WYOMING DEPARTMENT OF AGRICULTURE

Division of Resource Conservation

2877 Wyoming Department of Agriculture
308 Capitol Bldg.
Cheyenne, Wyo. 82001
Tel: (307) 777-7321

AREAS OF INTEREST: Soil conservation, water conservation, and environmental and water and air pollution control activities in Wyoming.

HOLDINGS: 100 photos; 400 slides; maps, charts, pamphlets, booklets, brochures, motion pictures.

PUBLICATIONS: *From the Ground Up* (bimonthly, available free); *Wise Use of Wyoming Resources* (book); educational brochures, annual report.

INFORMATION SERVICES: Provides consulting services; makes referrals; lends films and slides; presents talks on conservation of Wyoming natural resources; prepares short lists of literature citations in response to specific inquiries; distributes some maps, charts, brochures, and pamphlets free.

Facilities include nine soil temperature stations.

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES

Division of Health and Medical Services

Disease Prevention and Environmental Control Section

2878 Division of Health and Medical Services
Wyoming Department of Health and Social Services
State Office Bldg.
Cheyenne, Wyo. 82001
Tel: (307) 777-7512 or 777-7424

AREAS OF INTEREST: All aspects of environmental surveillance and control, including water supply, purity, and treatment, water pollution, waste disposal, food services, general sanitation, mobile home parks, recreation, institutions, and all other phases of general environmental sanitation.

HOLDINGS: Reference materials, data.

PUBLICATIONS: Standards and specifications.

INFORMATION SERVICES: Answers inquiries; makes referrals; provides consulting services free to Wyoming residents; permits onsite use of collection; performs bacteriological analyses of water samples; reviews plans and specifications of proposed construction.

WYOMING NATURAL RESOURCE BOARD

2879 210 West 23d St.
Cheyenne, Wyo. 82001
Tel: (307) 777-7284

AREAS OF INTEREST: Natural resources development in Wyoming, including all minerals, chemicals, and hydrocarbons; water development for irrigation, industrial, and municipal uses; industrial development; water and sewer planning; urban and comprehensive State planning; financing of certain water projects.

PUBLICATIONS: *Wyoming Progress Reports* (monthly); *Wyoming Directory of Manufacturing and Mining*; various reports on water, minerals, people, and economy of Wyoming; annual report.

INFORMATION SERVICES: Answers inquiries; makes referrals.

WYOMING STATE ENGINEER

2880 State Capitol Bldg.
Cheyenne, Wyo. 82001
Tel: (307) 777-7355

AREAS OF INTEREST: Administration of water resources in the State; water supply; water rights; ground water; surface water; water quality; water planning; flood control; irrigation; weather modification.

HOLDINGS: 41,500 maps and charts; 500 technical reports; data.

PUBLICATIONS: *Wyoming Water Laws*; *Manual of Regulations of the State Engineer*; maps, charts, technical reports, a biennial report to the Governor, tabulations of adjudicated water rights.

INFORMATION SERVICES: Answers technical inquiries on water rights in detail; permits onsite use of available data. Data obtained through cooperative programs with Federal and local Government agencies are available to the public in *Water-Supply Papers* and *Circulars* of the U.S. Geological Survey. These are on file in the Wyoming State Engineer's Office, the State Library, the Library of the University of Wyoming, and in the offices of the U.S. Geological Survey in Cheyenne and Worland, Wyo.

WYOMING STATE INSPECTOR OF MINES

2881 North Side Bank Bldg.
Rock Springs, Wyo. 82901
Tel: (307) 362-5222

AREAS OF INTEREST: Mines and mining in Wyoming.

HOLDINGS: Maps of mines.

PUBLICATIONS: Annual report.

INFORMATION SERVICES: Answers inquiries.

WYOMING TECHNICAL ASSISTANCE PROGRAM

see University of Wyoming

X-RAY ATTENUATION COEFFICIENT INFORMATION CENTER

see Commerce, Department of. National Bureau of Standards

YALE UNIVERSITY

Astronomy Library

2882 Yale University
Box 2023, Yale Station
New Haven, Conn. 06520

Location:

60 Sachem St.
New Haven, Conn.
Tel: (203) 787-3131 Ext. 2685

AREAS OF INTEREST: Astronomy.

HOLDINGS: 10,000 books; 500 periodical titles, including many observatory publications.

INFORMATION SERVICES: Provides duplication services at cost; permits onsite use of collection.

Department of Geology and Geophysics

2883 Yale University
Box 2161, Yale Station
New Haven, Conn. 06520

Location:
Kline Geology Laboratory
260 Whitney Ave.
New Haven, Conn.
Tel: (203) 787-3131 Ext. 8211

AREAS OF INTEREST: Mineral deposits; geochemistry; mineralogy; vertebrate and invertebrate paleontology; oceanography; mineral synthesis; petrology; geophysical fluid dynamics; structural geology; regional geology; geology of the Appalachians; meteorology; aeronomy.

HOLDINGS: 50,000 books; 500 periodical titles; 50,000 reports; mineral, rock, and fossil collections.

PUBLICATIONS: *American Journal of Science* (10 issues a year); *Economic Geology* (8 issues a year); *Radiocarbon* (2 issues a year); *Journal of Geophysical Research* (section on oceans and atmospheres, 12 issues a year).

INFORMATION SERVICES: Answers brief inquiries free; provides consulting services for fee.

Engineering and Applied Science Library

2884 Yale University
15 Prospect St.
New Haven, Conn. 06520
Tel: (203) 432-4539 or 432-4890

AREAS OF INTEREST: Applied quantum physics and electronics; chemical engineering; communication and control; science of materials; applied mechanics; physics of fluids and plasmas; applied mathematics.

HOLDINGS: 12,500 books; Yale engineering theses; depository collection of NASA technical publications.

INFORMATION SERVICES: Answers inquiries; provides reference services; provides duplication services for fee; makes referrals; makes interlibrary loans; permits onsite use of collection. Non-University users are charged a fee for library privileges.

YARWAY CORP.

2885 Township Line Rd.
Blue Bell, Pa. 19422
Tel: (215) 825-2100

AREAS OF INTEREST: Liquid, steam, and process flow, measurement, and control; valves; steam traps; expansion joints; strainers; spray nozzles; liquid level indicators; liquid level controls; water columns and gages.

HOLDINGS: 150 books; 1,500 journals; 300 reports; patents, drawings, data.

PUBLICATIONS: News journal, technical reports, standards and specifications, drawings and instructions.

INFORMATION SERVICES: Provides consulting, translating, and reference services; permits onsite use of collection.

YELLOWSTONE RIVER COMPACT COMMISSION

2886 P.O. Box 1696
Helena, Mont. 59601

Location:
421 Federal Bldg.
Helena, Mont.
Tel: (406) 442-9040 Ext. 3263

AREAS OF INTEREST: Apportionment of the water of the Yellowstone River among the States of Wyoming and Montana. The Commission operates gaging stations to measure discharge of interstate tributaries of the Yellowstone River.

HOLDINGS: Records of tributary streamflow, diversion, and reservoir storage data; a reference collection of books.

PUBLICATIONS: Annual report.

INFORMATION SERVICES: Answers inquiries related to the Yellowstone River Compact.

YERKES RESEARCH AND DEVELOPMENT LABORATORY

Library

2887 Yerkes Research and Development
Laboratory
Station B
River Rd., Tonawanda
Buffalo, N.Y. 14207
Tel: (716) 876-4420 Ext. 207

AREAS OF INTEREST: Organic, polymer, and cellulose chemistry, including industrial applications.

HOLDINGS: About 3,500 books and 5,000 bound volumes.

INFORMATION SERVICES: Permits onsite reference to noncompany-generated material.

YONKERS PUBLIC LIBRARY

Technical and Business Department

2888 Yonkers Public Library
70 South Broadway
Yonkers, N.Y. 10701
Tel: (914) 337-1500 Ext. 60

AREAS OF INTEREST: Engineering; physics; chemistry; mathematics; management; architecture; firearms; radio and television; aeronautics; agriculture; finance; real estate; insurance; business; technology.

HOLDINGS: 15,382 books; 14,590 pamphlets; 187 periodicals.

INFORMATION SERVICES: Makes referrals; lends materials other than bound periodicals and technical reference collection of about 2,000 volumes, which are available for onsite reference only.

ZATOR CO.

2889 140 1/2 Mount Auburn St.
Cambridge, Mass. 02138
Tel: (617) 876-6776

AREAS OF INTEREST: Information sciences; information storage and retrieval; artificial intelligence; digital communications; computer programming languages.

HOLDINGS: 4,000 technical reports; 400 books; 350 volumes of journals.

PUBLICATIONS: Occasional technical reports.

INFORMATION SERVICES: Answers brief phone inquiries; makes referrals; provides consulting services on contract basis; permits onsite use of parts of literature collection.

ZINC INSTITUTE, INC.

2890 292 Madison Ave.
New York, N.Y. 10017
Tel: (212) 679-6020

Branch Offices:

638 New Center Bldg.
Detroit, Mich. 48202
Tel: (313) 872-2850

324 Ferry St.
Lafayette, Ind. 47901
Tel: (317) 742-3476

AREAS OF INTEREST: All phases of the domestic production and consumption of zinc and zinc products, including technical and application engineering related to the zinc industry, marketing and statistical aspects of zinc production and consumption, galvanizing, diecasting, rolled zinc, zinc oxide, zinc chemicals, building construction, corrosion, cathodic protection, electric cells, toxicity, paints, pigments, plating, coating, alloys, and metallurgy (excluded are price, tariffs, stockpiles, imports, and exports).

HOLDINGS: Books, journals, reports, and data from English, Russian, Italian, Spanish, French, German, Dutch, and Portuguese sources; films, photos, nonprinted material; a special collection of the *Proceedings of International Galvanizing Conferences.*

PUBLICATIONS: *Zinc Spotlight* is published quarterly and is free. *Zinc Abstracts*, a free, monthly publication which reviews all current world uses of zinc, is prepared in London at the ZDA/LDA Joint Library, 34 Berkeley Square, under the joint sponsorship of the Zinc Development Association (British), Lead Development Association (British), Zinc Institute, Lead Industries Association (American), and the International Lead Zinc Research Organization. Each abstract is printed with uniterms. Full indexes are maintained in London to past and present literature; duplicate card indexes of current material are maintained in New York. All requests for loans, photocopies, or translations by readers in the United States should be made directly to the Zinc Development Association in London. The *Annual Review of the Zinc Industry in the United States* is distributed at no cost. Nonperiodic publications include technical reports, indexes, conference proceedings, data handbooks, directories, and bibliographies.

INFORMATION SERVICES: The library at the New York office is open to the public and makes interlibrary loans. Reference, consulting, and document services are available without charge. Research is conducted by the Institute's associated organization at the same address, the International Lead Zinc Research Organization, on a contractual basis.

THE ZIPPERTUBING CO.

2891 13000 South Broadway
Los Angeles, Calif. 90061
Tel: (213) 321-3901

AREAS OF INTEREST: Flexible plastic tubing with mechanical closures (flexible plastic jackets made of a variety of materials, including Polyvinyl Chloride, Teflon, vinyl coated Nylon, and Polyolefins) to be used to jacket wires and cable assemblies and electrical harnesses, to insulate pipes for heat or cold environments from both internal and external sources, to provide protection from abrasion, or to provide color code identification, all with the capability of reaccessibility to the product that is jacketed for the repair, maintenance, and inspection of that product.

INFORMATION SERVICES: Answers inquiries and provides engineering and consulting services related to jacketing requirements.

SUBJECT INDEX

This subject index has been prepared by computer processing (with some manual editing) of a previously indexed companion file maintained for retrieval operations by the National Referral Center. The index terms were thus assigned independently of the approved text appearing in the entries of the *Directory* proper, although they are based on the same raw source data from which the entries themselves were originally drafted. Clearly an expedient, the method was dictated by time and personnel constraints. The terminology employed is, with some exceptions, that found in the Department of Defense/Engineers Joint Council *Thesaurus of Engineering and Scientific Terms.*

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